Pioneer

Service Manual

ORDER NO.
RRV2378

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-859RDS

VSX-859RDS-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-859RDS	VSX-859RDS-G		
HYXJI	○	○	AC220-230V	AC240V, *
HVXJI	○	-	AC230V	AC240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

- **This service manual should be used together with the following manual(s):**

Model No.	Order No.	Remarks
VSX-35TX/KUXJI/CA	RRV2351	

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 → 56 x 10^1 → 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k → 47 x 10^3 → 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 → R50 .... RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k → 562 x 10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

■ CONTRAST TABLE

VSX-35TX/KUXJI/CA, VSX-859RDS/HYXJI, VSX-859RDS/HVXJI and VSX-859RDS-G/HYXJI are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-35TX /KUXJI/CA	**VSX-859RDS /HYXJI**	**VSX-859RDS /HVXJI**	**VSX-859RDS-G /HYXJI**	
		PCB ASSEMBLIES					
P5- 1		FM/AM TUNER UNIT	AXQ7231	AXQ7232	AXQ7232	AXQ7232	
	NSP	MAIN ASSY	AWK7591	AWK7603	AWK7603	AWK7603	
P5- 5		├─MAIN CONTROL ASSY	AWX7560	AWX7594	AWX7594	AWX7594	
P5-12		└─DSP ASSY	AWX7561	AWX7595	AWX7595	AWX7595	
	NSP	COMPLEX ASSY	AWK7592	AWK7604	AWK7607	AWK7604	
P5- 2		├─EX I/O(7.1CH I/O) ASSY	AWX7568	AWX7597	AWX7597	AWX7597	
P5- 6		├─ A- CONNECTION ASSY	AWX7566	AWX7584	AWX7584	AWX7584	
P5-12		├─ REGULATOR ASSY	AWX7562	AWX7806	AWX7806	AWX7806	
P5-15		└─ PRIMARY ASSY	AWX7563	AWX7596	AWX7604	AWX7596	
	NSP	POWER ASSY	AWK7593	AWK7605	AWK7605	AWK7605	
P5- 4		├─ INPUT ASSY	AWX7573	AWX7600	AWX7600	AWX7600	
P5-10		├─ SP/PS ASSY	AWX7571	AWX7598	AWX7598	AWX7598	
		└─ FAN DRIVER ASSY	Not used	AWX7599	AWX7599	AWX7599	No. 1
	NSP	FRONT ASSY	AWK7594	AWK7606	AWK7606	AWK7606	
P5- 7		├─ COMPOSITE ASSY	AWX7581	AWX7621	AWX7621	AWX7621	
P6- 3		├─ V-AMP ASSY	AWX7578	AWX7723	AWX7723	AWX7723	
P7- 1		├─ DISPLAY ASSY	AWX7574	AWX7601	AWX7601	AWX7601	
		└─ P- SW ASSY	Not used	AWX7593	AWX7593	AWX7593	No. 2
		PACKING SECTION					
P3- 2		FM Antenna	ADH7004	ADH7005	ADH7005	ADH7005	
P3- 3		Operating Instructions (English)	ARB7222	ARB7225	ARB7225	ARB7225	
P3- 3		Operating Instructions (German)	Not used	ARC7293	Not used	ARC7293	
P3- 3		Operating Instructions (French)	Not used	ARC7292	Not used	ARC7292	
P3- 3		Operating Instructions (Italian)	Not used	ARC7294	Not used	ARC7294	
P3- 3		Operating Instructions (Dutch)	Not used	ARC7296	Not used	ARC7296	
P3- 3		Operating Instructions (Swedish)	Not used	ARC7298	Not used	ARC7298	
P3- 3		Operating Instructions (Spanish)	Not used	ARC7295	Not used	ARC7295	
P3- 3		Operating Instructions (Portuguese)	Not used	ARC7297	Not used	ARC7297	

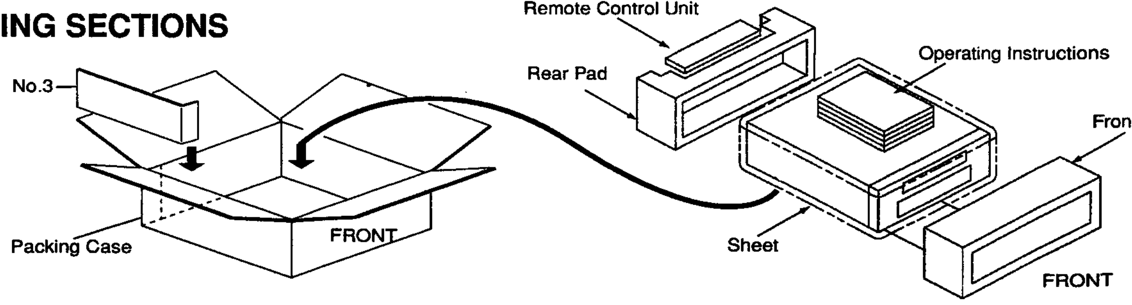
Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-35TX /KUXJI/CA	VSX-859RDS /HYXJI	VSX-859RDS /HVXJI	VSX-859RDS-G /HYXJI	
		PACKING SECTION					
P3- 4		Remote Control Unit	AXD7266	AXD7273	AXD7273	AXD7273	
P3- 8		Packing Case	AHD7860	AHD7865	AHD7865	AHD7900	
P3-11	NSP	Warranty Card	ARY7007	ARY7022	ARY7022	ARY7022	
		Spacer	Not used	AHB7052	AHB7052	AHB7052	No. 3
		EXTERIOR SECTION					
P5-18	⚠	Power Transformer	ATS7284	ATS7285	ATS7285	ATS7285	
P5-19	⚠	Fuse (FU4, FU5:)	REK1112 (2.5A)	REK1025 (T2.0A)	REK1025 (T2.0A)	REK1025 (T2.0A)	
P5-21	⚠	Fuse (FU1:)	VEK1029 (10A)	REK-106 (T4.0A)	AEK-106 (T4.0A)	AEK-106 (T4.0A)	
P5-26		AC Cord Stopper	CM–22C	CM–22B	CM–22B	CM–22B	
P5-27	⚠	AC Power Cord	VDG1075	VDG1080	VDG1076	VDG1080	
P5-28		Spacer	AEB7210	AEB7213	AEB7213	AEB7213	
P5-30	NSP	Under Base	ANA7113	ANA7102	ANA7102	ANA7102	
P5-31		Rear Panel	ANC7910	ANC7912	ANC7939	ANC7961	
P5-33		Bonnet	AZN7835	AZN7835	AZN7835	AZN7836	
P5-35		Trans Shield	ANG7293	ANG7294	ANG7294	ANG7294	
		Bottom Plate	Not used	ANF7020	ANF7020	ANF7020	No. 4
	⚠	Fan Motor	Not used	AXM7012	AXM7012	AXM7012	No. 5
		Stabilizer	Not used	ANG7310	ANG7310	ANG7310	No. 6
		Locking Card Spacer	Not used	AEC7160	AEC7160	AEC7160	No. 7
		HEAT SINK SECTION					
	⚠	Thermistor	Not used	AEX7004	AEX7004	AEX7004	No. 8
		FRONT PANEL SECTION					
P7- 9		4P Flexible Cable/60V	ADD7238	Not used	Not used	Not used	
P7-13		Door Stay	AAH7063	AAH7063	AAH7063	AAH7064	
P7-14		Door	AMB7692	ANB7223	ANB7223	ANB7222	
P7-15		Door Hinge L	AMR7291	AMR7291	AMR7291	AMR7292	
P7-16		Door Hinge R	AMR7293	AMR7293	AMR7293	AMR7294	
P7-17		Volume Knob (MASTER)	AAB7193	AAB7193	AAB7193	AAB7210	
P7-18		Rotary Knob (INPUT SELECTOR)	AAB7226	AAB7226	AAB7226	AAB7227	
P7-19		Digital Cap	AAD7576	AAD7576	AAD7576	AAD7580	
P7-20		Volume Ring	AAK7623	AAH7623	AAH7623	AAH7016	
P7-21		Window	AAK7769	AAK7764	AAK7764	AAK7732	
P7-22		Door Sheet	AAK7783	AAK7778	AAK7778	AAH7798	
P7-24		Cusion Circle	AED7044	AED7044	AED7044	AED7045	
P7-25		Front Panel	AMB7691	ANB7230	ANB7230	ANB7243	
P7-26		Panel Base	AMB7695	AMB7695	AMB7695	AMB7696	
P7-30		Damper Assy	AXA7089	AXA7088	AXA7088	AXA7088	
P7-31		Name Plate	PAM1776	PAN1376	PAN1376	PAN1377	
		POWER Button	Not used	AAD7442	AAD7442	AAD7491	No. 9
		FL Sheet	Not used	Not used	Not used	AAK7735	No.10

Notes : ●The numbers in the remarks column correspond to the numbers on the " EXPLODED VIEWS ".

● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "2. PCB CONNECTION DIAGRAM" and "3. SCHEMATIC DIAGRAM".

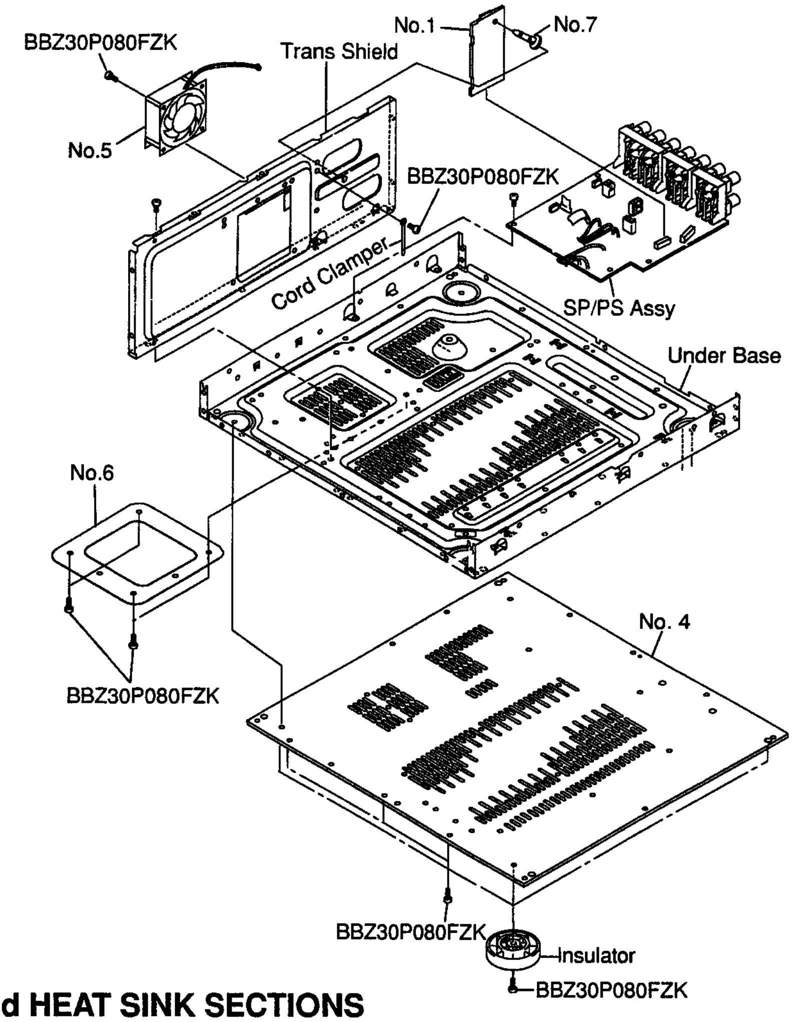
■ EXPLODED VIEWS

● PACKING SECTIONS

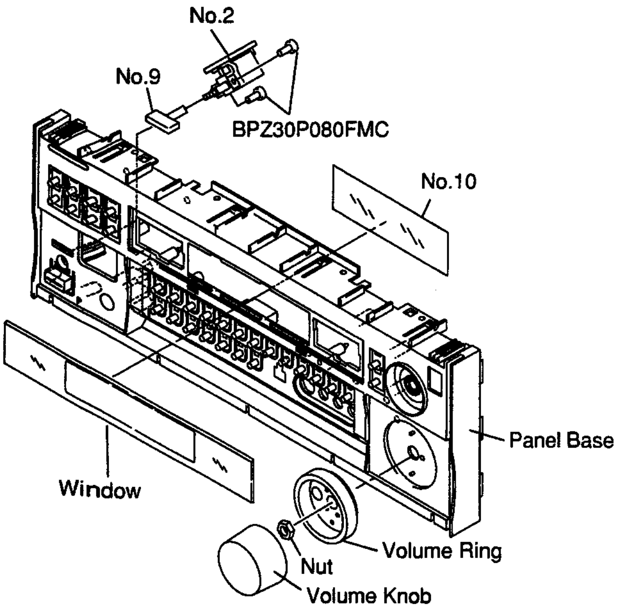


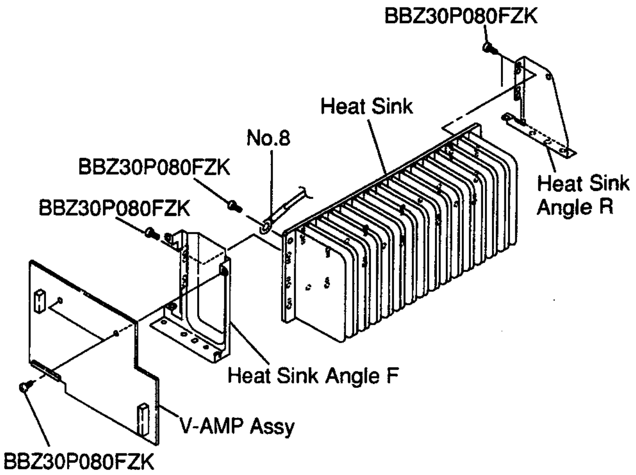
VSX-859RDS, VSX-859RDS-G

• EXTERIOR SECTION


No.1
No.7
BBZ30P080FZK
Trans Shield
No.5
BBZ30P080FZK
Cord Clamper
SP/PS Assy
Under Base
No.6
BBZ30P080FZK
No. 4
BBZ30P080FZK
Insulator
BBZ30P080FZK

• FRONT PANEL and HEAT SINK SECTIONS


No.2
No.9
BPZ30P080FMC
No.10
Panel Base
Window
Volume Ring
Nut
Volume Knob


BBZ30P080FZK
Heat Sink
No.8
BBZ30P080FZK
Heat Sink Angle R
BBZ30P080FZK
Heat Sink Angle F
V-AMP Assy
BBZ30P080FZK

■ CONTRAST OF PCB ASSEMBLIES

A F FM/AM TUNER UNIT

AXQ7232 and AXQ7231 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AXQ7231	AXQ7232	
	BN201	AKA7003	AKA7002	
	Q601	Not used	2SC2412K	
	Q602	Not used	DTC124EK	
	D101	Not used	UDZS6.8B	
	D601	Not used	HVU187	
	L601	Not used	LCTA270J2520	
	L602	Not used	LAU2R2J	
	F601	Not used	ATF7025	
	C101	CKSRYB103K50	Not used	
	C103, C104, C609	Not used	CKSRYB102K50	
	C206	CCSRCH100D50	CCSRCH120J50	
	C209	CKSRYB223K50	Not used	
	C210	CEJA470M16	CEJQ470M16	
	C211	CEJA1R0M50	CEJQ1R0M50	
	C215	CKSRYB681K50	CKSRYB471K50	
	C216, C217	CKSRYB153K50	CKSRYB103K50	
	C244, C611	Not used	CKSRYB223K50	
	C601, C602	CKSRYB103K50	Not used	
	C603	CKSRYB223K50	CKSRYB392K50	
	C604, C610, C615	Not used	CKSRYB103K50	
	C605	Not used	CCSQCH680J50	
	C606	Not used	CKSRYB561K50	
	C607, C608	Not used	CKSRYB182K50	
	C614	Not used	CCSRCH101J50	
	R101	Not used	RS1/16S0R0J	
	R102, R225, R243	RS1/16S0R0J	Not used	
	R103	RS1/10S331J	RS1/10S221J	
	R104	RS1/10S391J	RS1/10S221J	
	R105, R605	Not used	RS1/16S222J	
	R201	RS1/16S391J	Not used	
	R202	RS1/16S221J	RS1/16S101J	
	R212	RS1/16S392J	RS1/16S512J	
	R216	RS1/16S123J	RS1/16S103J	
	R218, R219	RS1/16S102J	RS1/16S681J	
	R222	RS1/16S472J	RS1/16S103J	
	R227	RS1/16S103J	RS1/16S183J	
	R601	Not used	RS1/16S561J	
	R602, R604	Not used	RS1/16S221J	
	R603	Not used	RS1/16S472J	
	R606	Not used	RS1/16S121J	
	R607	Not used	RS1/16S473J	
	0001 FM FRONT END	AXF7003	AXF7005	
	0002 MW RF TUNING BLOCK	AXX7071	AXX7072	

B F 7.1CH I/O ASSY

AWX7597 and AWX7568 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7568	AWX7597	
	C1101– C1124, C1161– C1165	Not used	CCSQCH101J50	
	C1167, C1168	Not used	CCSQCH101J50	
	C1151– C1158	Not used	CCSQCH331J50	
	C1166	Not used	CCSQCH471J50	

CF INPUT ASSY

AWX7600 and AWX7573 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7573	AWX7600	
	Q1001, Q1002	2SC2878	Not used	
	D1051	1SS133	Not used	
	C1051	CGCYX103M16	Not used	
	C1001–C10012	Not used	CCCSL221J50	
	R1013– R1016, R1051	RD1/4PU102J	Not used	
	R1017, R1018	RD1/4PU473J	Not used	
	CN1002 6P SOCKET	KP200TA6L	Not used	
	JA1004 2P PIN JACK	AKB7046	Not used	
	JA1051 MULI ROOM JACK	AKN7014	Not used	

EF A-CONNECTION ASSY

AWX7584 and AWX7566 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7566	AWX7584	
	IC503	NJM4558MD	UPC4570G2	
	IC1551	M62429FP	Not used	
	D1551	UDZS5.1B	Not used	
	C1509, C1510	Not used	CCSQCH221J50	
	C1551– C1553	CEAT100M50	Not used	
	C1554, C1555	CCSQCH101J50	Not used	
	C1556, C1557	CEAT1R0M50	Not used	
	R1551	RS3LMF391J	Not used	
	R1552, R1553	RS1/10S102J	Not used	
	R1554, R1555	RS1/10S103J	Not used	
	CN1552 9P SOCKET	AKP7068	Not used	
	CN1554 6P PLUG	KM200TA6	Not used	

F COMPOSITE ASSY

AWX7621 and AWX7581 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7581	AWX7621	
	IC731	NJM2279M	Not used	
	D731	DAN202K	Not used	
	C732, C733	CKSQYB473K50	Not used	
	C734, C735	CEAT101M10	Not used	
	C736	CKSQYB473K50	Not used	
	C737	CCSQCH470J50	Not used	
	R733– R735	RS1/10S102J	Not used	

IF V-AMP ASSY

AWX7723 and AWX7578 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7578	AWX7723	
	CN2201 3P PLUG	Not used	KM250MA3	

DF MAIN CONTROL ASSY

AWX7594 and AWX7560 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7560	AWX7594	
	IC103	TC9164AF	Not used	
	IC104	NJM4558MD	Not used	
	IC251	Not used	NJM4558MD	
	Q905	DTA124EK	Not used	
	D251, D252	Not used	1SS355	
	D253	Not used	UDZS5.1B	
	C101– C112	Not used	CCSQCH221J50	
	C119, C120	Not used	CKSRYB331K50	
	C133, C134	CKSRYB103K50	Not used	
	C135, C136	CEAT1R0M50	Not used	
	C145, C146, C169, C170, C181, C182	Not used	CCSRCH101J50	
	C157, C158	Not used	CCSQCH101J50	
	C191– C193	CCSRCH101J50	Not used	
	C252	Not used	CEAT470M25	
	C253– C256	Not used	CKSRYB103K50	
	C291	CEJA101M16	CEJQ101M16	
	C911	CKSRYB103K50	Not used	
	L101– L104	Not used	LCTA181J3225	
	R111, R112	RS1/10S0R0J	RS1/10S101J	
	R115, R116	RS1/10S331J	RS1/10S122J	
	R129, R130, R139, R140	RS1/10S104J	Not uesd	
	R203, R204	RS1/10S104J	Not used	
	R131, R132	RS1/16S474J	Not used	
	R133, R134	RS1/16S471J	Not used	
	R135, R136, R934, R944– R946	RS1/16S102J	Not used	
	R990, R991	RS1/10S102J	Not used	
	R211– R215, R252, R253	Not used	RS1/16S104J	
	R251	Not used	RS1/16S474J	
	R254	Not used	RS1/16S102J	
	R255	Not used	RS1/16S393J	
	R295	Not used	RS1/10S0R0J	
	R923	Not used	RS1/16S103J	
	R933	RS1/16S473J	Not used	
	CN103 9P PLUG	AKP7057	Not used	
	CN906 4P FFC CONNECTOR	52045-0445	Not used	

LF SP / PS ASSY

AWX7598 and AWX7571 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7571	AWX7598	
⚠	D3001, D3002	D5SBA20	LN6SB60-4003	
	D3052, D3054, D3056, D3058, D3059	Not used	1SS133	
	D3201	Not used	MTZJ5.1B	
	C3101- C3105	CFTYA104J50	CFTYA224J50	
	C3106- C3110	Not used	CFTYA224J50	
	C3111- C3117	CQHA102J2A	CQHA332J2A	
	C3119	Not used	CKPUYB221K50	
	R3111	Not used	RD1/4PU4R7J	
	R3133, R3134	Not used	RS1LMF471J	
	Heat Sink	ANH1021	Not used	
	CN3002 6P PLUG	Not used	KM200TA6	
	CN3101 8P SPEAKER TERMINAL	AKE7058	AKE7059	
	CN3102 6P SPEAKER TERMINAL	AKE7060	AKE7061	

NF REGULATOR ASSY

AWX7806 and AWX7562 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7562	AWX7806	
⚠	D5009	D3SBA20(B)	LN4SB60-4003	

QF PRIMARY ASSY

AWX7596, AWX7604 and AWX7563 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		AWX7563	AWX7596	AWX7604	
	C6011– C6013	Not used	CCCSL101K2H	CCCSL101K2H	
	R6001	RCN1080	Not used	Not used	
	T6001	ATT7043	ATT7040	ATT7040	
	J0032	Not used	D20PYY0330E	D20PYY0330E	
	6004	AKP7136	AKP7135	Not used	
	6001	Not used	51048-0300	51048-0300	

SF DISPLAY ASSY

AWX7601 and AWX7574 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7574	AWX7601	
	IC7051	TC7W53FU	Not used	
	IC7401	Not used	BU1923	
	Q7053	FMA1A	Not used	
	Q7054	DTC124EK	Not used	
	Q7401	Not used	2SA1037K	
	Q7402	Not used	DTC143EK	
	Q7403	Not used	2SC2412K	
	D7054– D7057	1SS355	Not used	
	C7053	CKSQYB153K50	Not used	
	C7401	Not used	CKSQYB472K50	
	C7402	Not used	CEAT2R2M50	
	C7403, C7404	Not used	CKSQYB102K50	
	C7405	Not used	CEAT101M10	
	C7406, C7407	Not used	CCSQCH270J50	
	C7408	Not used	CKSQYB561K50	
	C7409	Not used	CEAT1R0M50	
	L7401	Not used	LFA2R2J	
	R7047	RS1/10S223J	RS1/10S103J	
	R7056	RS1/10S223J	Not used	
	R7057	RS1/10S392J	Not used	
	R7058, R7061	RS1/10S103J	Not used	
	R7401, R7407, R7408	Not used	RS1/10S102J	
	R7403	Not used	RS1/10S222J	
	R7404	Not used	RS1/10S473J	
	R7405	Not used	RS1/10S333J	
	R7406	Not used	RS1/10S104J	
	CN7007 4P FFC CONNECTOR	52045-0445	Not used	
	X7401 CRYSTAL RESONATOR (4.332MHz)	Not used	ASS7004	

Y F DSP ASSY

AWX7595 and AWX7651are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7561	AWX7595	
	IC9041	Not used	NJM4558MD	
	IC9071	Not used	PM4007A	
	IC9091	Not used	LH52256CN-70LL	
	Q9001, Q9002, Q9004 - Q9006, Q9031	Not used	2SC3082K (NP)	
	Q9003, Q9032	Not used	2PD601A (QR)	
	Q9007	Not used	2PB709A (QR)	
	D9001	Not used	KV1851	
	D9002	Not used	1SS355	
	F9001	Not used	ATF7001	
	L9003	Not used	ATH7001	
	L9001, L9071	Not used	ATL7002	
	L9091	Not used	QTL1013	
	JA9151	AKB7131	Not used	
	JA9152	Not used	AKB7132	
	C9001, C9014, C9054, C9056, C9070	Not used	CKSRYB103K50	
	C9002, C9003, C9006, C9010, C9011, C9017	Not used	CKSRYF104Z25	
	C9018, C9031, C9051, C9052, C9055, C9092	Not used	CKSRYF104Z25	
	C9072–C9075, C9078–C9081	Not used	CKSRYF104Z25	
	C9004, C9005, C9008, C9009, C9012, C9013	Not used	CKSQYF104Z25	
	C9015, C9020, C9032, C9043, C9058	Not used	CKSQYF104Z25	
	C9007	Not used	CCSRCH750J50	
	C9016	Not used	CEJQ470M25	
	C9019	Not used	CKSRYB473K16	
	C9033	Not used	CCSRCH101J50	
	C9041, C9042	Not used	CKSRYF105Z10	
	C9053	Not used	CEJQNP4R7M25	
	C9057	Not used	CCSRCH270J50	
	C9071	Not used	CEJQ101M10	
	C9076, C9077, C9082, C9083, C9084, C9085	Not used	CCSRCH471J50	
	C9093, C9087	Not used	CCSRCH471J50	
	C9086	Not used	CCSQCH471J50	
	C9091	Not used	CEJQ470M16	
	C9095	Not used	CCSQCH221J50	
	C9096	Not used	CEAT100M50	
	C9102, C9108, C9151, C9152, C9162	CEJA470M16	CEJQ101M16	
	C9111	CEJAR47M50	CEJQR47M50	
	C9117, C9120, C9562,	CEJA470M16	CEJQ470M16	
	C9123, C9125	CEJA1R0M50	CEJQ1R0M50	
	C9127	CEJA2R2M50	CEJQ2R2M50	
	C9203– C9207, C9603, C9604, C9615, C9616	CEJA4R7M50	CEJQ4R7M50	
	C9627, C9628, C9761, C9762, C9811, C9813	CEJA4R7M50	CEJQ4R7M50	
	C9501, C9516, C9551, C9740, C9801, C9802	CEJA101M10	CEJQ101M10	
	C9523, C9526, C9643, C9644, C9770	CEJA100M25	CEJQ100M25	
	C9529	CEJA2R2M50	CEJQ2R2M50	
	C9713, C9714, C9727, C9728, C9739, C9753	CEJA330M10	CEJQ330M10	
	C9754, C9765– C9769	CEJA330M10	CEJQ330M10	
	C9803, C9805	CEJA470M25	CEJQ470M25	
	C9812, C9814	CEJA101M10	CEJQ101M10	
	R9001	Not used	RS1/16S750J	
	R9002, R9010, R9011, R9018, R9038, R9054	Not used	RS1/16S103J	
	R9071, R9072, R9053	Not used	RS1/16S103J	
	R9003, R9019	Not used	RS1/16S512J	
	R9004, R9015, R9016, R9020	Not used	RS1/16S202J	
	R9005, R9006, R9014, R9021, R9022, R9025	Not used	RS1/16S102J	
	R9073	Not used	RS1/16S102J	
	R9007, R9023, R9033	Not used	RS1/16S220J	
	R9008, R9027, R9030	Not used	RS1/16S302J	
	R9009,R9074	Not used	RS1/16S221J	
	R9013, R9017, R9034	Not used	RS1/16S152J	
	R9024, R9026	Not used	RS1/16S332J	
	R9028, R9029	Not used	RS1/16S561J	
	R9031, R9032	Not used	RS1/16S333J	
	R9035	Not used	RS1/16S223J	

Mark	Symbol and Description	Part No.		Remarks
		AWX7561	AWX7595	
	R9037, R9039	Not used	RS1/16S274J	
	R9041	Not used	RS1/16S472J	
	R9042, R9044, R9062	Not used	RS1/16S392J	
	R9043	Not used	RS1/16S273J	
	R9046	Not used	RS1/16S104J	
	R9047	Not used	RS1/16S432J	
	R9051	Not used	RS1/16S393J	
	R9052	Not used	RS1/16S243J	
	R9055	Not used	RS1/16S121J	
	R9056	Not used	RS1/16S683J	
	R9057- R9059	Not used	RS1/16S473J	
	R9061	Not used	RS1/16S471J	
	R9075, R9076	Not used	RS1/16S101J	
	R9095, R9096	Not used	RS1/16S0R0J	
	R9106	RS1/16S331J	RS1/16S101J	
	R9153	RS1/10S0R0J	RS1/10S104J	
	R9590	RS1/16S0R0J	RS1/16S331J	
	R9761	RS1/16S102J	Not used	
	X9001 CRYSTAL RESONATOR (18.432MHz)	Not used	ASS7009	

■ PCB PARTS LIST

QA P-SW ASSY (AWX7593)

Mark	No.	Description	Part No.
	SWITCHES AND RELAYS		
	S6801		ASG1035
	CAPACITORS		
	C6801, C6802		CGCYX103K25
	OTHERS		
	CN6801	3P JUMPER CONNECTOR	52151-0310

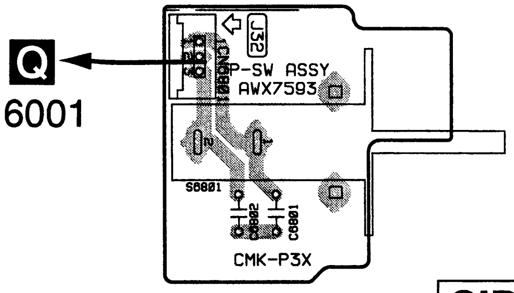
Z FAN DRIVER ASSY (AWX7599)

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
⚠	IC3501		AEK7010
	Q3501		KRA103M
	Q3502		KRC103M
	Q3503		2SC4793
	D3504		MTZJ12C
	D3503		MTZJ27D
⚠	D3501, D3502		S5688G
	CAPACITORS		
	C3501		CEAT471M35
	C3502		CEAT1R0M50
	C3503		CKCYF103Z50
	C3504		CEANP471M25
	C3505		CEAT100M50
	RESISTORS		
	Other Resistors		RD1/4PU☐☐☐J
	OTHERS		
	CN3502	3P PLUG	KM250MA3L
	CN3501	6P SOCKET	KP200TA6L

2. PCB CONNECTION DIAGRAM

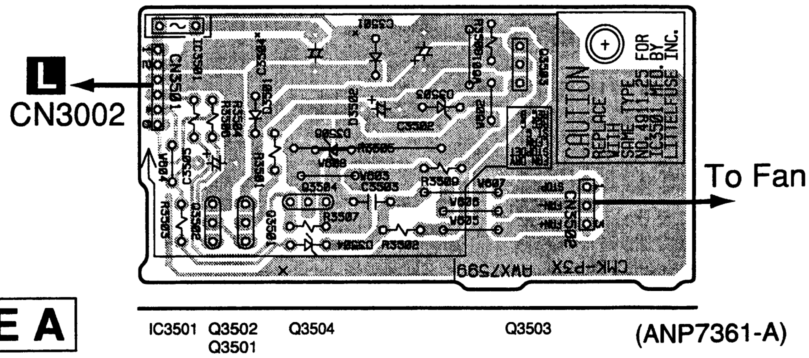
2.1 P- SW and FAN DRIVER ASSYS

QA P-SW ASSY


Q
6001
J32
CN6801
P-SW ASSY
AWX7593
S6801
C6802
C6801
CMK-P3X

(ANP7362-A)

Z FAN DRIVER ASSY


L
CN3002
CN3501
IC3501
C3501
C3504
D3501
D3502
D3503
R3504
R3506
R3501
R3503
R3505
R3509
R3507
R3502
C3505
C3502
C3503
Q3503
Q3504
Q3502
Q3501
D3504
W004
W008
W003
W007
W006
W005
STP
FAN-
FAN+
CN3502
CAUTION
REPLACE WITH SAME TYPE NO. 491.125 IC3501 MFD. BY LITTELFUSE INC. FOR
CMK-P3X AWX7599
To Fan
IC3501
Q3502
Q3501
Q3504
Q3503

(ANP7361-A)

SIDE A

2.2 TRANS 2-1, TRANS 2-2 and TRANS 1 ASSYS

• Line Voltage Selection

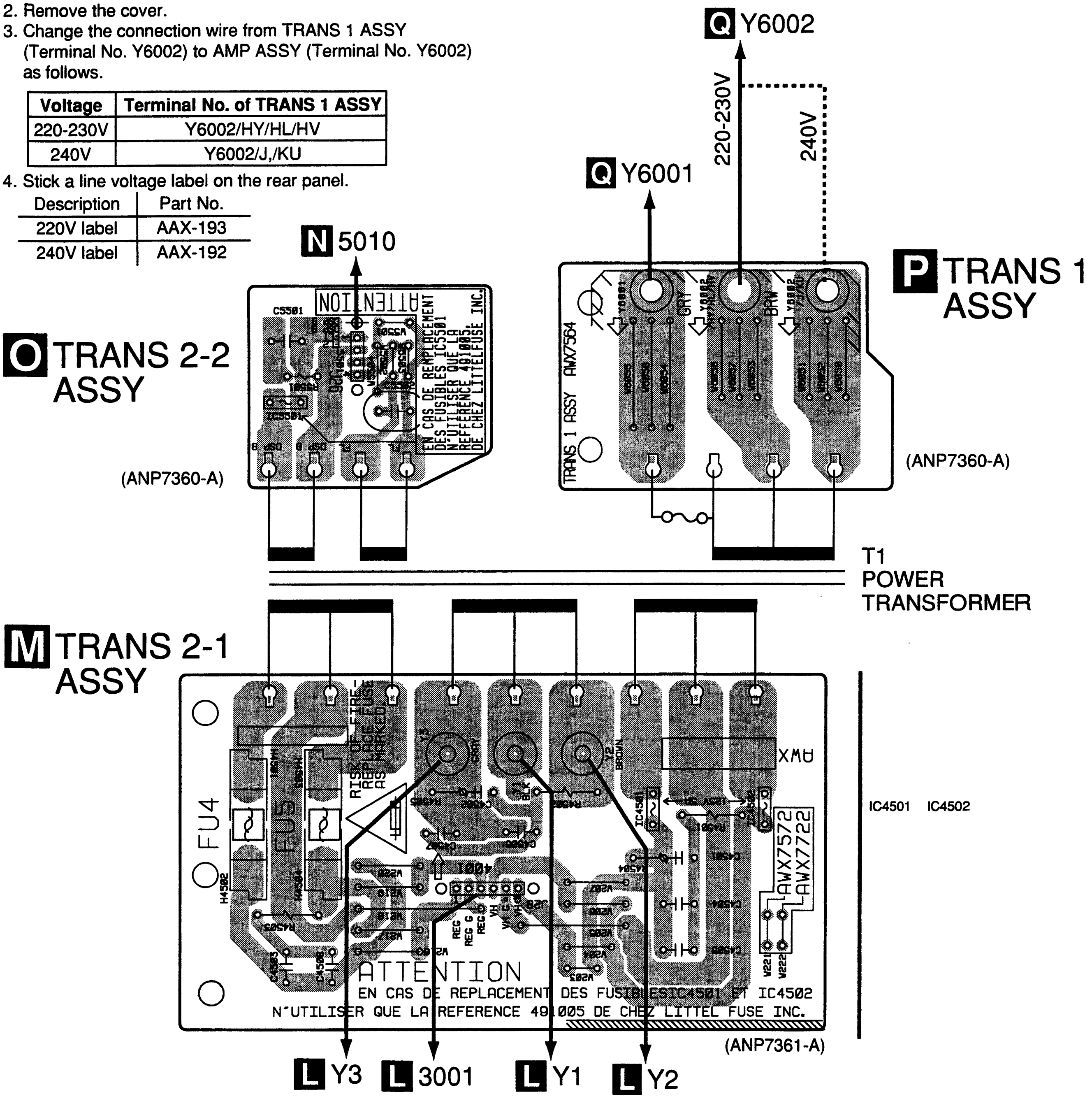
Line Voltage can be changed by the following modification:

1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY (Terminal No. Y6002) to AMP ASSY (Terminal No. Y6002) as follows.

Voltage	Terminal No. of TRANS 1 ASSY
220-230V	Y6002/HY/HL/HV
240V	Y6002/J,/KU

4. Stick a line voltage label on the rear panel.

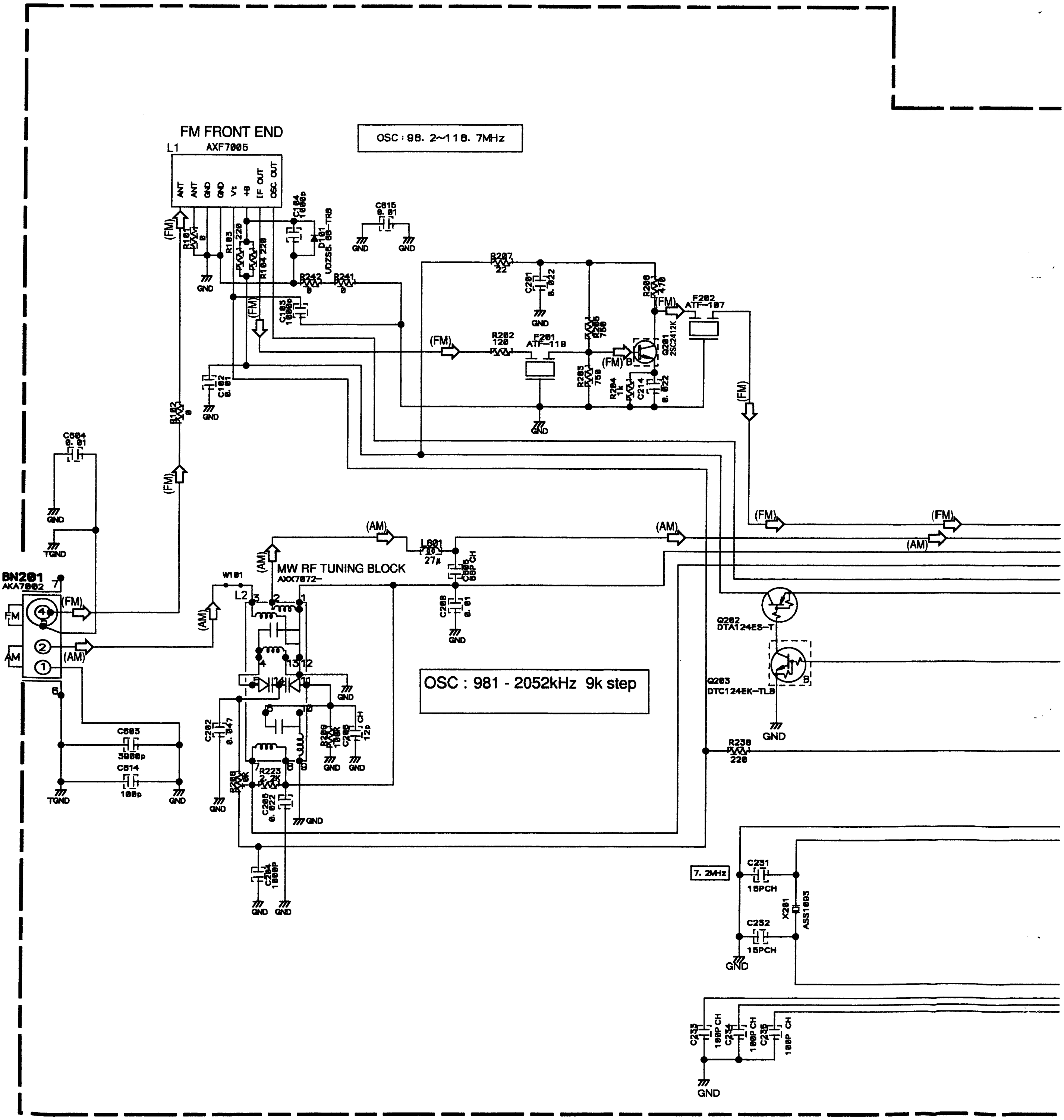
Description	Part No.
220V label	AAX-193
240V label	AAX-192


Q Y6002
220-230V
240V
Q Y6001
N 5010
P TRANS 1 ASSY
O TRANS 2-2 ASSY
(ANP7360-A)
(ANP7360-A)
TRANS 1 ASSY AWX7564
T1 POWER TRANSFORMER
M TRANS 2-1 ASSY
FU4
FU5
AWX7572
AWX7722
IC4501 IC4502
ATTENTION
EN CAS DE REPLACEMENT DES FUSIBLES IC4501 ET IC4502
N'UTILISER QUE LA REFERENCE 491005 DE CHEZ LITTEL FUSE INC.
(ANP7361-A)
L Y3
L 3001
L Y1
L Y2

3. SCHEMATIC DIAGRAM

3.1 FM/AM TUNER UNIT

AF FM/AM TUNER UNIT (AXQ7232)


FM FRONT END
L1 AXF7005
ANT
ANT
GND
GND
Vt
+B
IF OUT
OSC OUT
OSC : 98. 2~118. 7MHz
C104 1000p
D101 UDZS6. 8B-TRB
C615 0.01
GND
(FM)
R101 0
R103 220
R104 220
R242 0
R241 0
C103 1000p
C102 0.01
R102 0
R207 22
C201 0.022
R208 470
F202 ATF-107
R202 120
F201 ATF-119
R205 750
R203 750
R204 1k
C214 0.022
Q201 2SC2412K
B
(FM)
C604 0.01
TGND
BN201 AKA7002
FM
AM
(AM)
W101
L2
MW RF TUNING BLOCK
AXX7072-
L601 27μ
C606 68P CH
C208 0.01
OSC : 981 - 2052kHz 9k step
C202 0.047
R209 100K
C206 12p CH
R223 2.2K
R206
C205 0.022
C204 1000P
C603 3900p
C614 100p
Q202 DTA124ES-T
Q203 DTC124EK-TLB
R230 220
7. 2MHz
C231 15PCH
C232 15PCH
X201 ASS1003
C233 100P CH
C234 100P CH
C235 100P CH
1
2
3
4
5
6
7
8
9
10
11
12
13
14

Notes

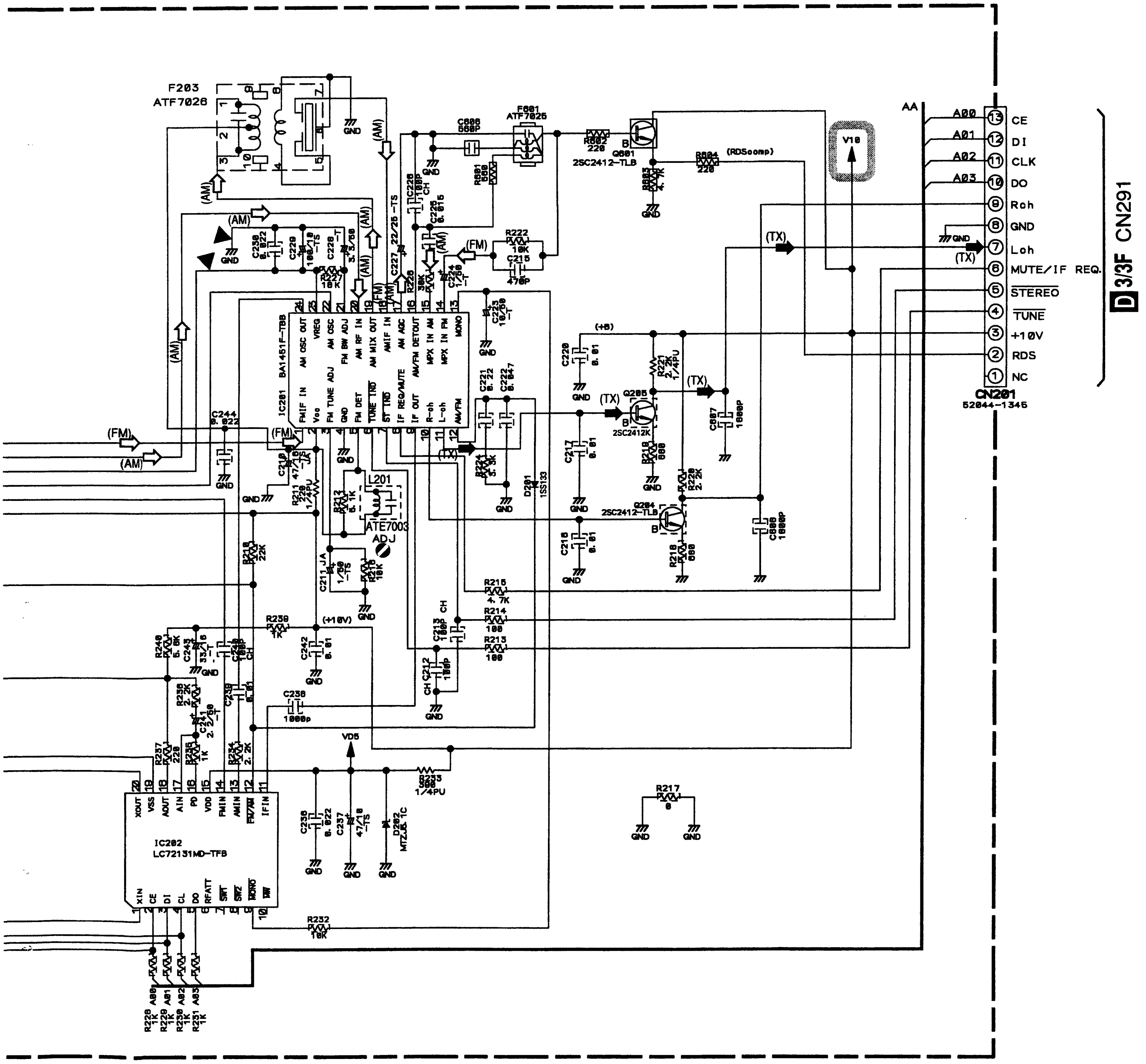
1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K;kΩ, M;MΩ.
2. CAPACITORS
   Indicated in Capacity(μF)/VOLTAGE(V) unless otherwise noted P;PF.
3. DIODES
   No mark diode is 1SS133.

▭ : The power supply is shown with the marked box.

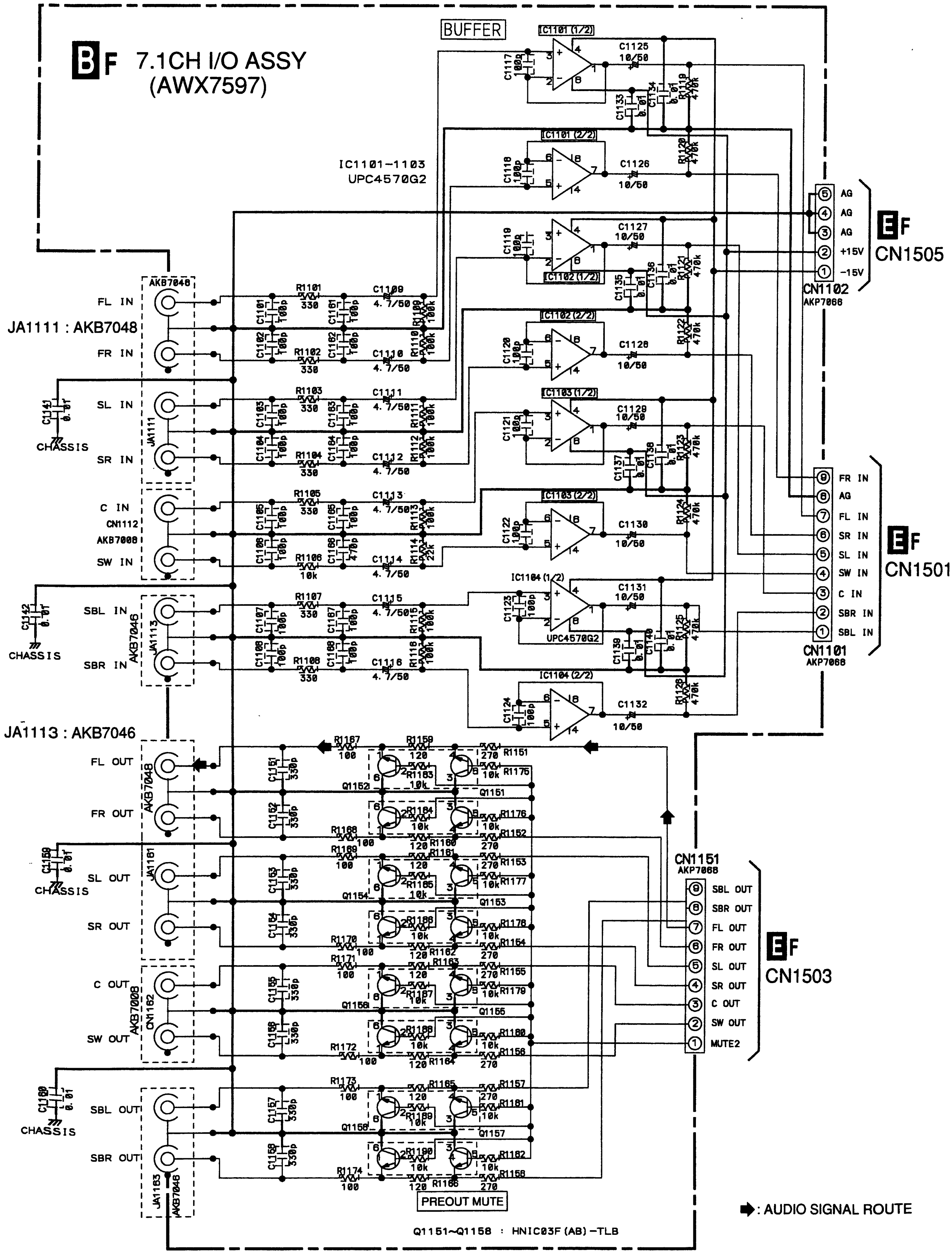
(TX) ➡ : AUDIO SIGNAL ROUTE (TUNER)

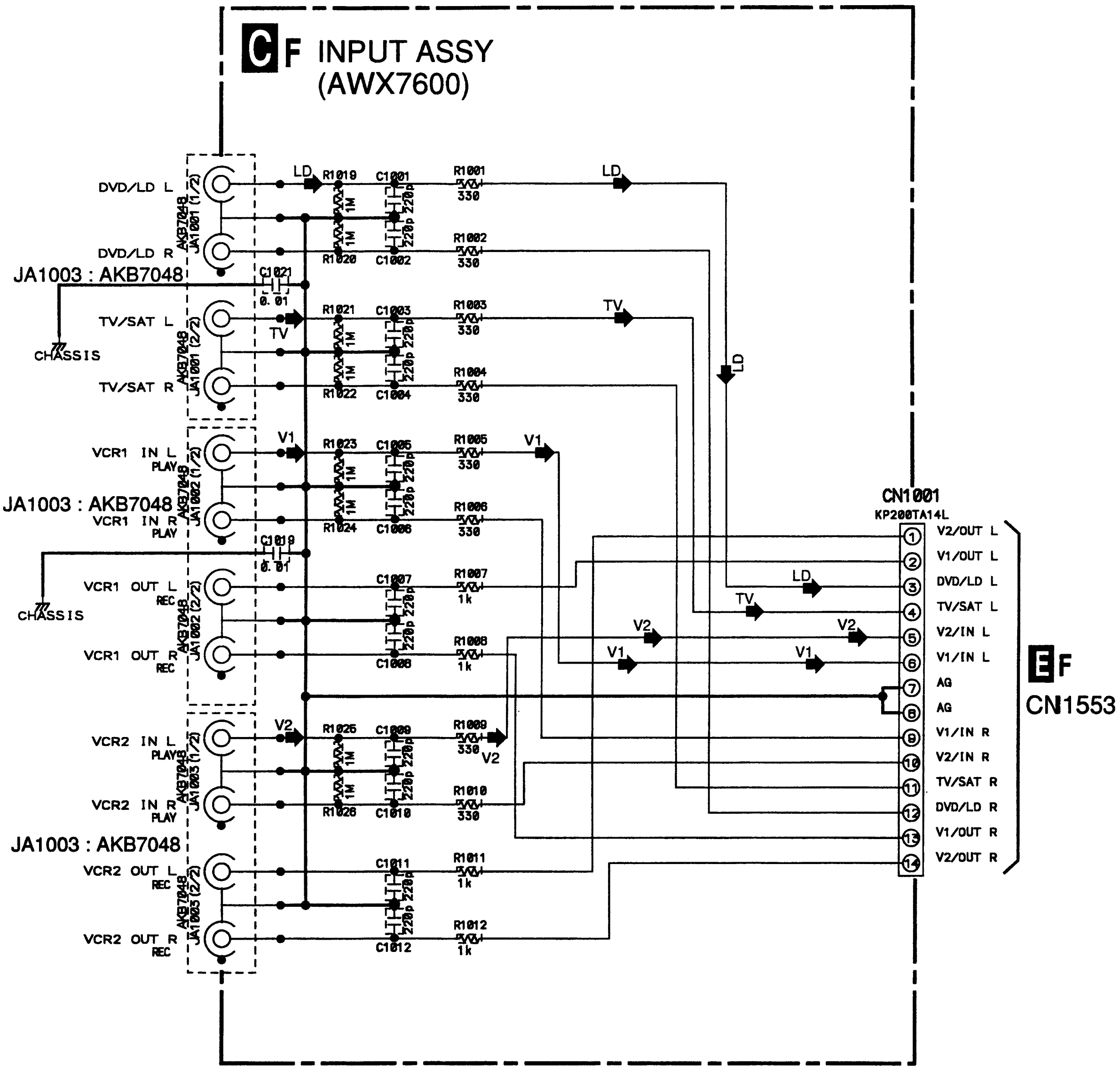
(AM) ⇨ : AM SIGNAL ROUTE

(FM) ⇨ : FM SIGNAL ROUTE


F203
ATF7026
F601
ATF7026
C606 560P
R602 220
Q601 2SC2412-TLB
R604 220 (RDScomp)
R603 4.7K
R601 560
C226 100P CH
C225 0.015
C227 22/25-TS
R222 10K
C215 470P
C230 0.022
C229 100/10 -TS
C228 3.3/50 -T
R227 10K
R226 39K
C224 1/50 -T
C223 10/50 -T
IC201 BA1451F-TBB
FMIF IN
Vcc
FM TUNE ADJ
GND
FM DET
TUNE IND
ST IND
IF REQ/MUTE
IF OUT
R-ch
L-ch
AM/FM
AM OSC OUT
VREG
AM OSC
FM BW ADJ
AM RF IN
AM MIX OUT
AMIF IN
AM AGC
AM/FM DETOUT
MPX IN AM
MPX IN FM
MONO
C221 0.22
C222 0.047
R224 3.3K
D201 1SS133
C244 0.022
C210 47/16 -T
R211 220 1/4PU
R212 5.1K
L201 ATE7003
ADJ
C211 1/50 -TS
R216 10K
R219 22K
Q205 2SC2412K
Q204 2SC2412-TLB
R221 2.2K 1/4PU
R218 680
R220 2.2K
R219 680
C220 0.01
C217 0.01
C218 0.01
C607 1000P
C608 1000P
(+B)
V10
AA
A00
A01
A02
A03
CN201 52044-1345
13 CE
12 DI
11 CLK
10 DO
9 Rch
8 GND
7 Lch
6 MUTE/IF REQ.
5 STEREO
4 TUNE
3 +10V
2 RDS
1 NC
D 3/3F CN291
R215 4.7K
R214 100
R213 100
C213 100P CH
C212 100P CH
R239 1K
(+10V)
C242 0.01
R240 5.6K
C243 33/16 -T
C240 100P CH
R238 2.2K
C241 2.2/50 -T
C239 0.01
C238 1000p
R237 220
R236 1K
R234 2.2K
VDD
R233 390 1/4PU
C236 0.022
C237 47/16 -TS
D202 MTZJ5.1C
IC202 LC72131MD-TFB
XOUT VSS AOUT AIN PD VDD FMIN AMIN FM/AM IFIN
XIN CE DI CL DO RFATT SW1 SW2 MONO SW
R232 10K
R217 0
R228 1K
R229 1K
R230 1K
R231 1K
(FM)
(AM)
(TX)
GND

3.2 7.1CH I/O and INPUT ASSYS


B F 7.1CH I/O ASSY
(AWX7597)
BUFFER
IC1101 (1/2)
IC1101 (2/2)
IC1102 (1/2)
IC1102 (2/2)
IC1103 (1/2)
IC1103 (2/2)
IC1104 (1/2)
IC1104 (2/2)
IC1101–1103
UPC4570G2
UPC4570G2
C1125 10/50
C1126 10/50
C1127 10/50
C1128 10/50
C1129 10/50
C1130 10/50
C1131 10/50
C1132 10/50
C1117 100p
C1118 100p
C1119 100p
C1120 100p
C1121 100p
C1122 100p
C1123 100p
C1124 100p
C1133 0.01
C1134 0.01
C1135 0.01
C1136 0.01
C1137 0.01
C1138 0.01
C1139 0.01
C1140 0.01
R1119 470k
R1120 470k
R1121 470k
R1122 470k
R1123 470k
R1124 470k
R1125 470k
R1126 470k
AKB7046
JA1111 : AKB7048
FL IN
FR IN
SL IN
SR IN
JA1111
C IN
CN1112
AKB7008
SW IN
SBL IN
SBR IN
JA1113
AKB7046
JA1113 : AKB7046
C1141 0.01
C1142 0.01
CHASSIS
R1101 330
R1102 330
R1103 330
R1104 330
R1105 330
R1106 10k
R1107 330
R1108 330
C1101 100p
C1102 100p
C1103 100p
C1104 100p
C1105 100p
C1106 100p
C1107 100p
C1108 100p
C1161 100p
C1162 100p
C1163 100p
C1164 100p
C1165 100p
C1166 470p
C1167 100p
C1168 100p
C1109 4.7/50
C1110 4.7/50
C1111 4.7/50
C1112 4.7/50
C1113 4.7/50
C1114 4.7/50
C1115 4.7/50
C1116 4.7/50
R1109 100k
R1110 100k
R1111 100k
R1112 100k
R1113 100k
R1114 22k
R1115 100k
R1116 100k
AG
AG
AG
+15V
−15V
CN1102
AKP7066
E F
CN1505
FR IN
AG
FL IN
SR IN
SL IN
SW IN
C IN
SBR IN
SBL IN
CN1101
AKP7066
E F
CN1501
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
SBL OUT
SBR OUT
AKB7046
JA1161
AKB7008
CN1162
JA1163
AKB7046
C1159 0.01
C1160 0.01
CHASSIS
CHASSIS
C1151 330p
C1152 330p
C1153 330p
C1154 330p
C1155 330p
C1156 330p
C1157 330p
C1158 330p
R1167 100
R1168 100
R1169 100
R1170 100
R1171 100
R1172 100
R1173 100
R1174 100
R1159 120
R1160 120
R1161 120
R1162 120
R1163 120
R1164 120
R1165 120
R1166 120
R1183 10k
R1184 10k
R1185 10k
R1186 10k
R1187 10k
R1188 10k
R1189 10k
R1190 10k
R1151 270
R1152 270
R1153 270
R1154 270
R1155 270
R1156 270
R1157 270
R1158 270
R1175 10k
R1176 10k
R1177 10k
R1178 10k
R1179 10k
R1180 10k
R1181 10k
R1182 10k
Q1151
Q1152
Q1153
Q1154
Q1155
Q1156
Q1157
Q1158
PREOUT MUTE
Q1151~Q1158 : HNIC03F (AB) -TLB
CN1151
AKP7066
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
E F
CN1503
➡: AUDIO SIGNAL ROUTE


CF INPUT ASSY
(AWX7600)
DVD/LD L
DVD/LD R
TV/SAT L
TV/SAT R
VCR1 IN L PLAY
VCR1 IN R PLAY
VCR1 OUT L REC
VCR1 OUT R REC
VCR2 IN L PLAY
VCR2 IN R PLAY
VCR2 OUT L REC
VCR2 OUT R REC
JA1003 : AKB7048
JA1001 (1/2) AKB7048
JA1001 (2/2) AKB7048
JA1002 (1/2) AKB7048
JA1002 (2/2) AKB7048
JA1003 (1/2) AKB7048
JA1003 (2/2) AKB7048
CHASSIS
C1021 0.01
C1019 0.01
R1019 R1020 R1021 R1022 R1023 R1024 R1025 R1026 1M
C1001 C1002 C1003 C1004 C1005 C1006 C1007 C1008 C1009 C1010 C1011 C1012 220p
R1001 R1002 R1003 R1004 R1005 R1006 R1009 R1010 330
R1007 R1008 R1011 R1012 1k
LD TV V1 V2
CN1001
KP200TA14L
1 V2/OUT L
2 V1/OUT L
3 DVD/LD L
4 TV/SAT L
5 V2/IN L
6 V1/IN L
7 AG
8 AG
9 V1/IN R
10 V2/IN R
11 TV/SAT R
12 DVD/LD R
13 V1/OUT R
14 V2/OUT R
EF CN1553

➡ : AUDIO SIGNAL ROUTE

LD➡ : AUDIO SIGNAL ROUTE (LD)

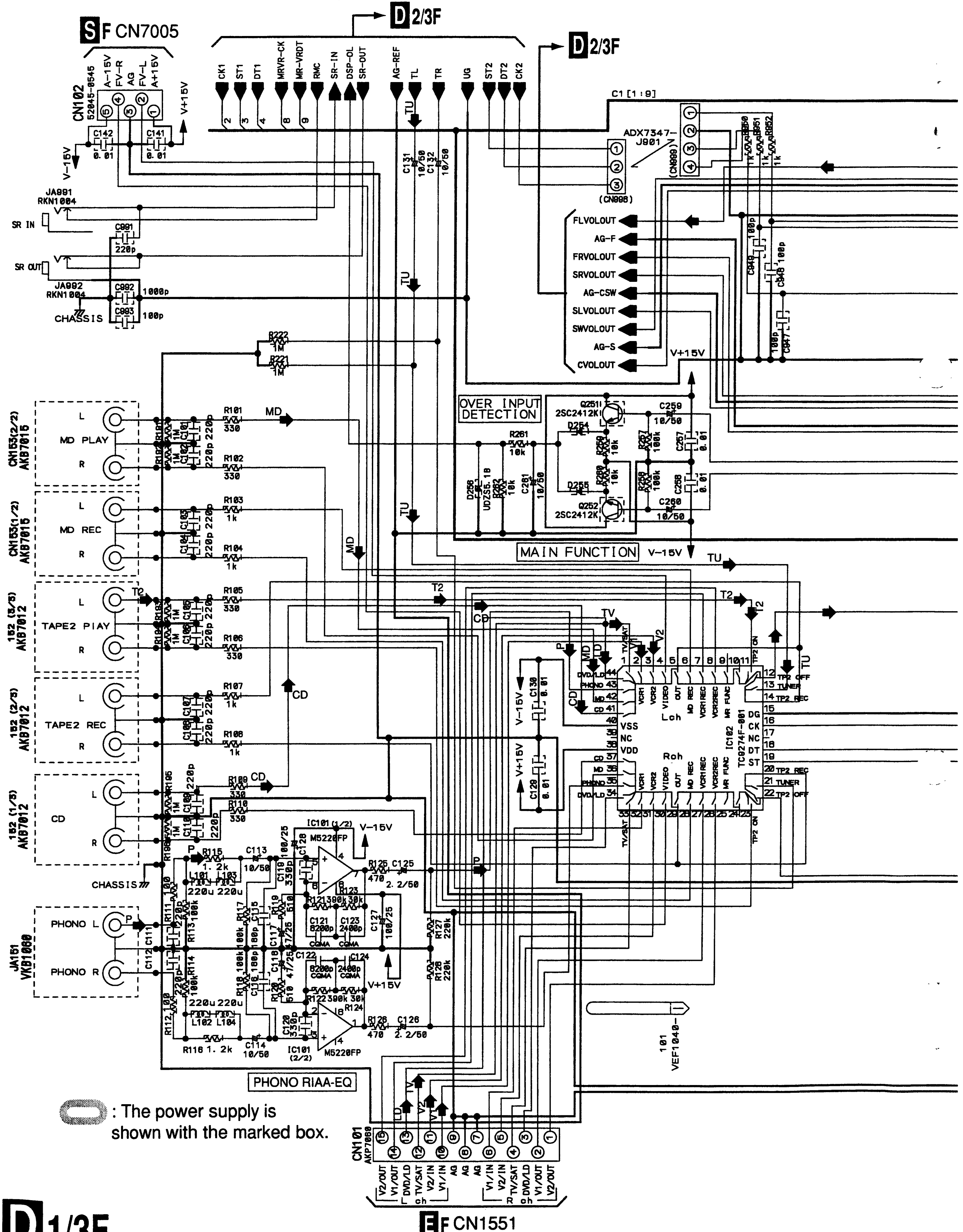
TV➡ : AUDIO SIGNAL ROUTE (TV)

V1➡ : AUDIO SIGNAL ROUTE (VCR1)

V2➡ : AUDIO SIGNAL ROUTE (VCR2)

MR➡ : AUDIO SIGNAL ROUTE (MR)

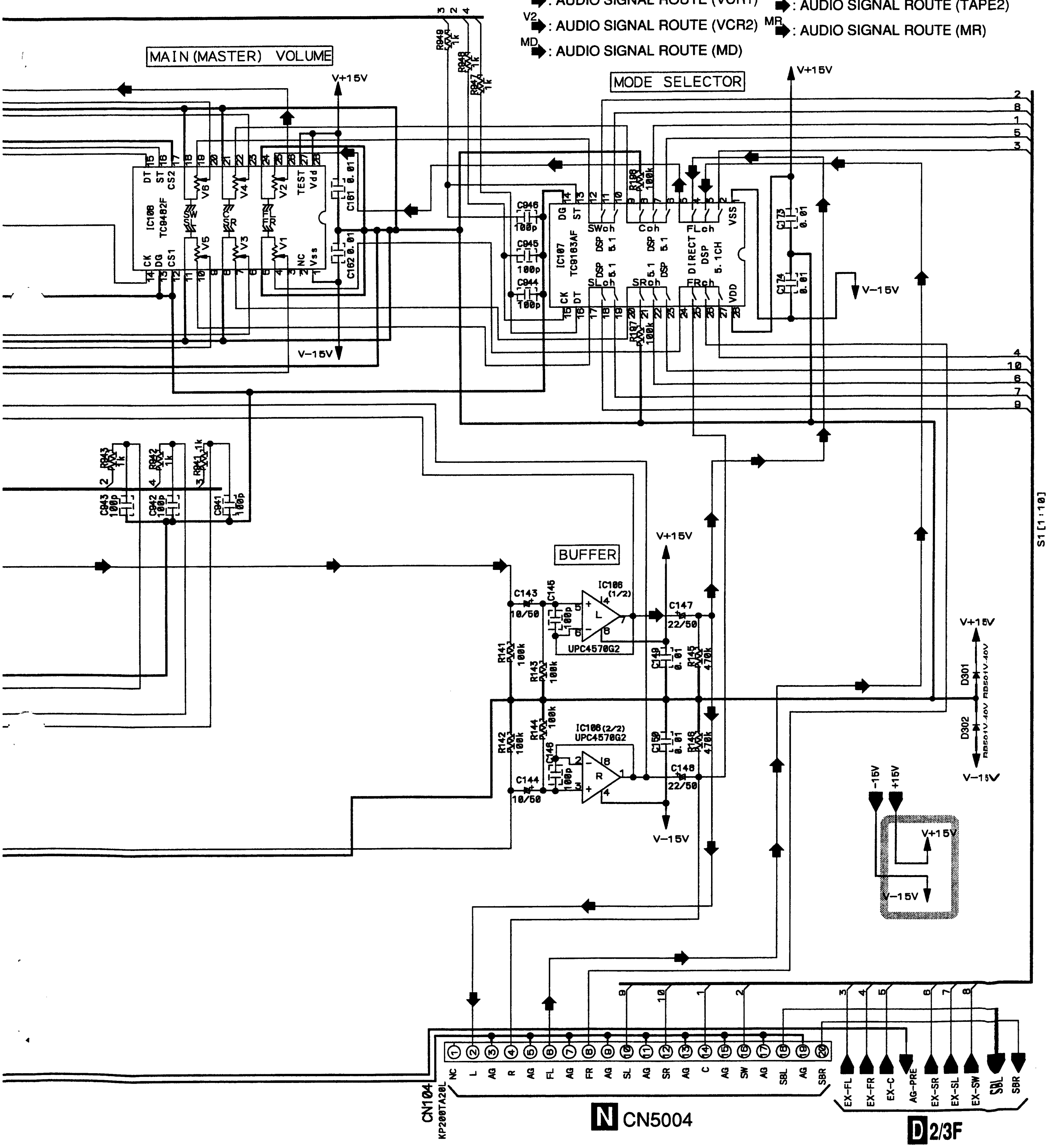
3.3 MAIN CONTROL ASSY (1/3)


D 2/3F
S F CN7005
D 2/3F
CN102 52045-0545
A-15V
FV-R
AG
FV-L
A+15V
V+15V
V-15V
C142 0.01
C141 0.01
CK1
ST1
DT1
MRVR-CK
MR-VRDT
RMC
SR-IN
DSP-OL
SR-OUT
AG-REF
TL
TR
UG
ST2
DT2
CK2
C1[1:9]
ADX7347-J901
(CN998)
(CN999)
R950
R951
R952
JA991 RKN1004
SR IN
C991 220p
SR OUT
JA992 RKN1004
C992 1000p
C993 100p
CHASSIS
C131 10/50
C132 10/50
TU
FLVOLOUT
AG-F
FRVOLOUT
SRVOLOUT
AG-CSW
SLVOLOUT
SWVOLOUT
AG-S
CVOLOUT
C949 100p
C948 100p
C947 100p
V+15V
R222 1M
R221 1M
OVER INPUT DETECTION
Q251 2SC2412K
Q252 2SC2412K
D254
D255
D256 UDZS5.1B
R261 10k
R262 10k
C261 10/50
R259 10k
R260 10k
R257 100k
R258 100k
C257 0.01
C258 0.01
C259 10/50
C260 10/50
MAIN FUNCTION
V-15V
CN153(2/2) AKB7015
MD PLAY
CN153(1/2) AKB7015
MD REC
152 (3/3) AKB7012
TAPE2 PLAY
152 (2/3) AKB7012
TAPE2 REC
152 (1/3) AKB7012
CD
JA151 VKB1060
PHONO L
PHONO R
R101 330
R102 330
R103 1k
R104 1k
R105 330
R106 330
R107 1k
R108 1k
R109 330
R110 330
MD
T2
CD
P
TV
V1
V2
IC102 TC9274F-001
VCR1
VCR2
VIDEO
OUT
MD REC
VCR1REC
VCR2REC
MR FUNC
Lch
Rch
VSS
NC
VDD
DG
CK
DT
ST
TP2 OFF
TUNER
TP2 REC
TP2 ON
TV/SAT
DVD/LD
PHONO
C130 0.01
C129 0.01
IC101 (1/2) M5220FP
IC101 (2/2) M5220FP
R115 1.2k
R116 1.2k
C113 10/50
C114 10/50
L101 L103 220u 220u
L102 L104 220u 220u
C119 330p
C120 330p
C121 8200p
C122 8200p
C123 2400p
C124 2400p
C127 100/25
C128 100/25
R121 390k
R122 390k
R123 30k
R124 30k
R125 470
R126 470
C125 2.2/50
C126 2.2/50
R127 220k
R128 220k
CQMA
PHONO RIAA-EQ
101 VEF1040-
CN101 AKP7060
V2/OUT
V1/OUT
DVD/LD
TV/SAT
V2/IN
V1/IN
AG
L ch
R ch
E F CN1551
1
2
3
4
A
B
C
D

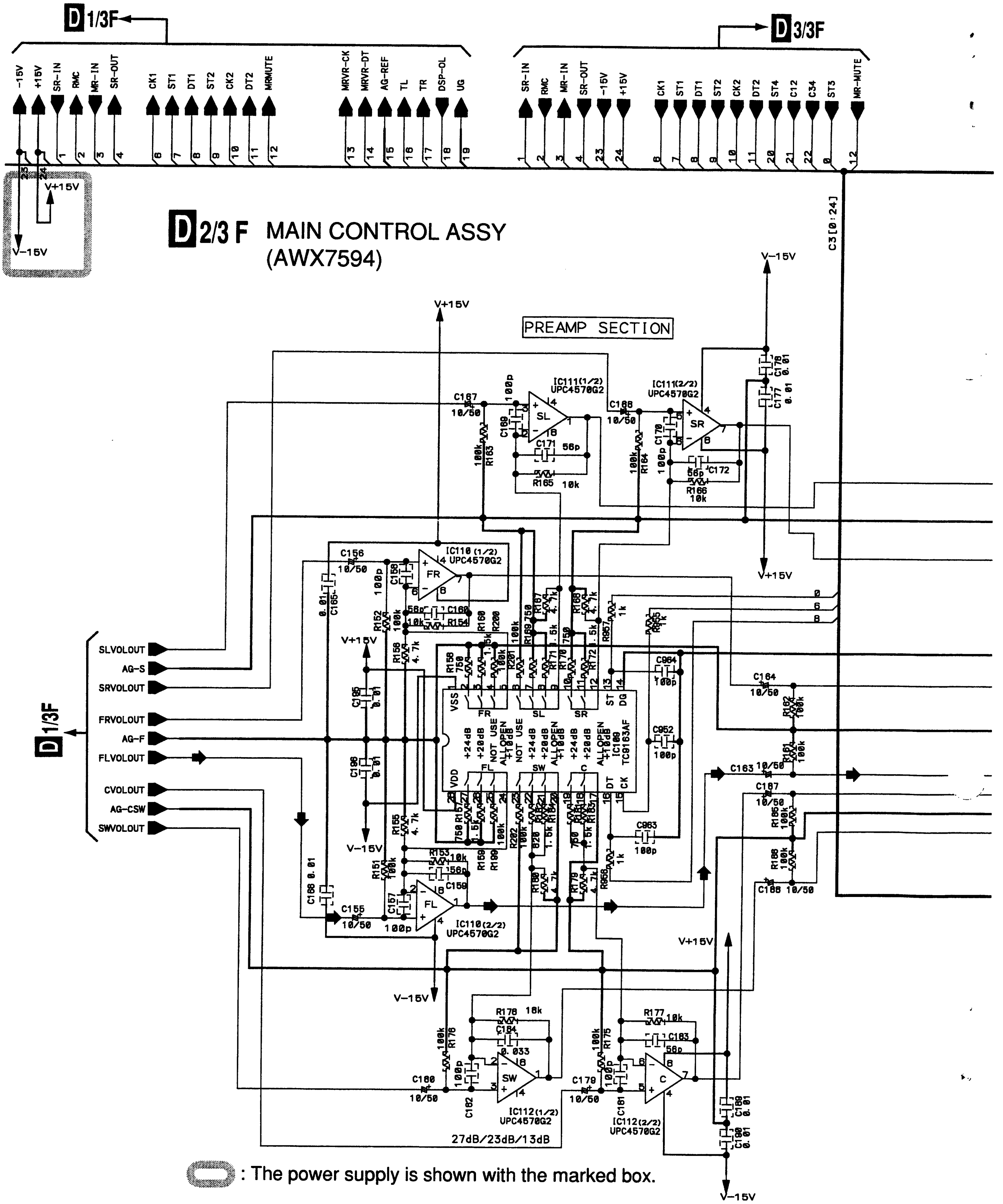
: The power supply is shown with the marked box.

D 1/3 F MAIN CONTROL ASSY
(AWX7594)

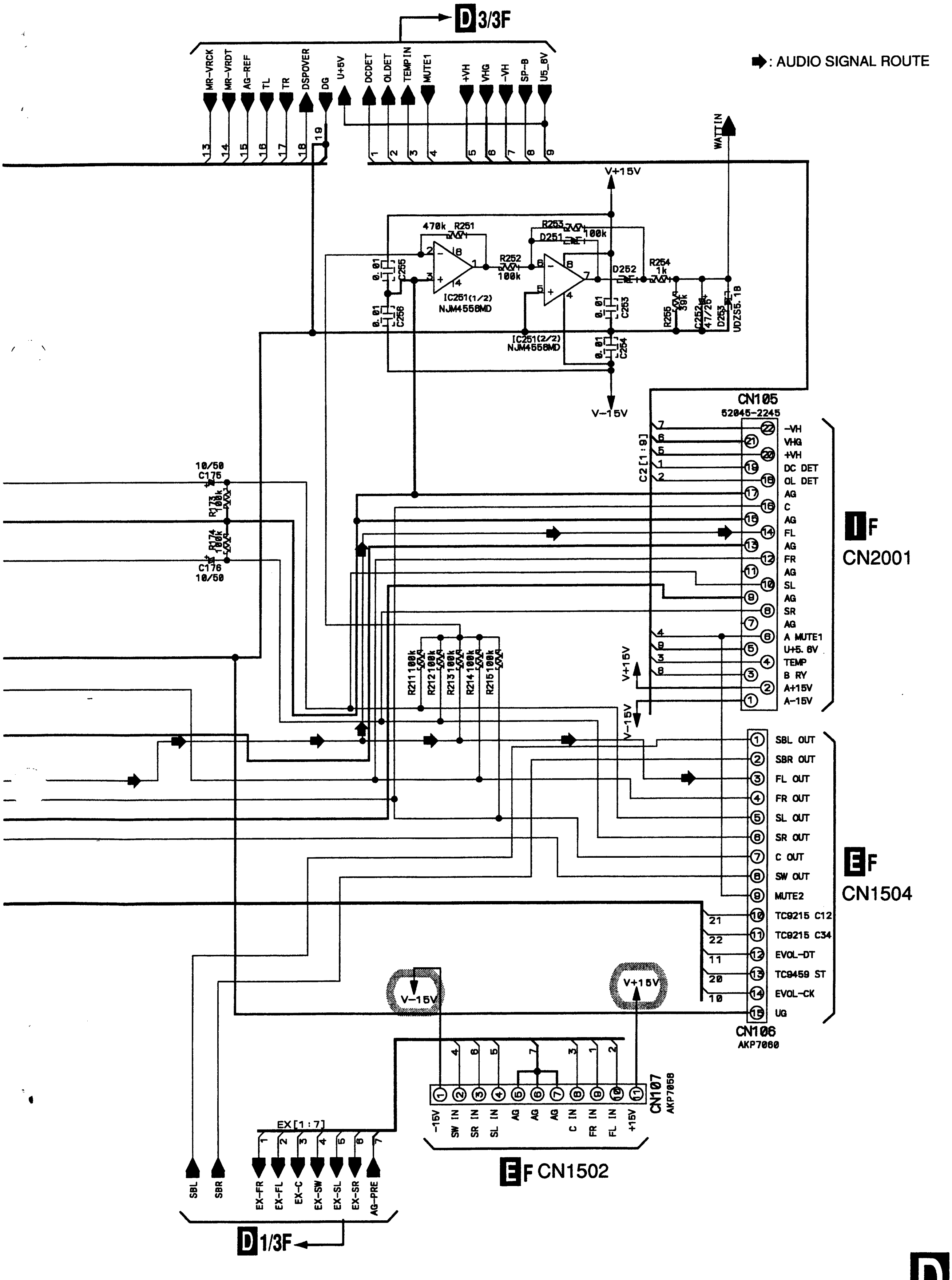
➡ : AUDIO SIGNAL ROUTE
LD ➡ : AUDIO SIGNAL ROUTE (LD)
TV ➡ : AUDIO SIGNAL ROUTE (TV)
V1 ➡ : AUDIO SIGNAL ROUTE (VCR1)
V2 ➡ : AUDIO SIGNAL ROUTE (VCR2)
MD ➡ : AUDIO SIGNAL ROUTE (MD)
P ➡ : AUDIO SIGNAL ROUTE (PHONO)
TU ➡ : AUDIO SIGNAL ROUTE (TUNER)
CD ➡ : AUDIO SIGNAL ROUTE (CD)
T2 ➡ : AUDIO SIGNAL ROUTE (TAPE2)
MR ➡ : AUDIO SIGNAL ROUTE (MR)


MAIN (MASTER) VOLUME
IC108
TC9482F
DT ST CS2
CK DG CS1
V6 V4 V2 V5 V3 V1
TEST Vdd
NC Vss
C161 0.01
C162 0.01
V+15V
V-15V
R949 1k
R948 1k
R947 1k
MODE SELECTOR
IC107
TC9163AF
DG ST CK DT
SWch Cch FLch
SLch SRch FRch
DSP 5.1
DIRECT DSP 5.1CH
VSS VDD
R108 100k
R107 100k
C946 100p
C945 100p
C944 100p
C173 0.01
C174 0.01
R943 1k
R942 1k
R941 1k
C943 100p
C942 100p
C941 100p
S1 [1:10]
BUFFER
IC106 (1/2)
IC106 (2/2)
UPC4570G2
C143 10/50
C145 100p
C147 22/50
C149 0.01
R145 470k
R141 100k
R143 100k
R142 100k
R144 100k
C146 100p
C150 0.01
R146 470k
C148 22/50
C144 10/50
D301
D302
RB501V-40V
V+15V
V-15V
-15V +15V
CN104
KP200TA20L
NC L AG R AG FL AG FR AG SL AG SR AG C AG SW AG SBL AG SBR
N CN5004
EX-FL EX-FR EX-C AG-PRE EX-SR EX-SL EX-SW SBL SBR
D 2/3F

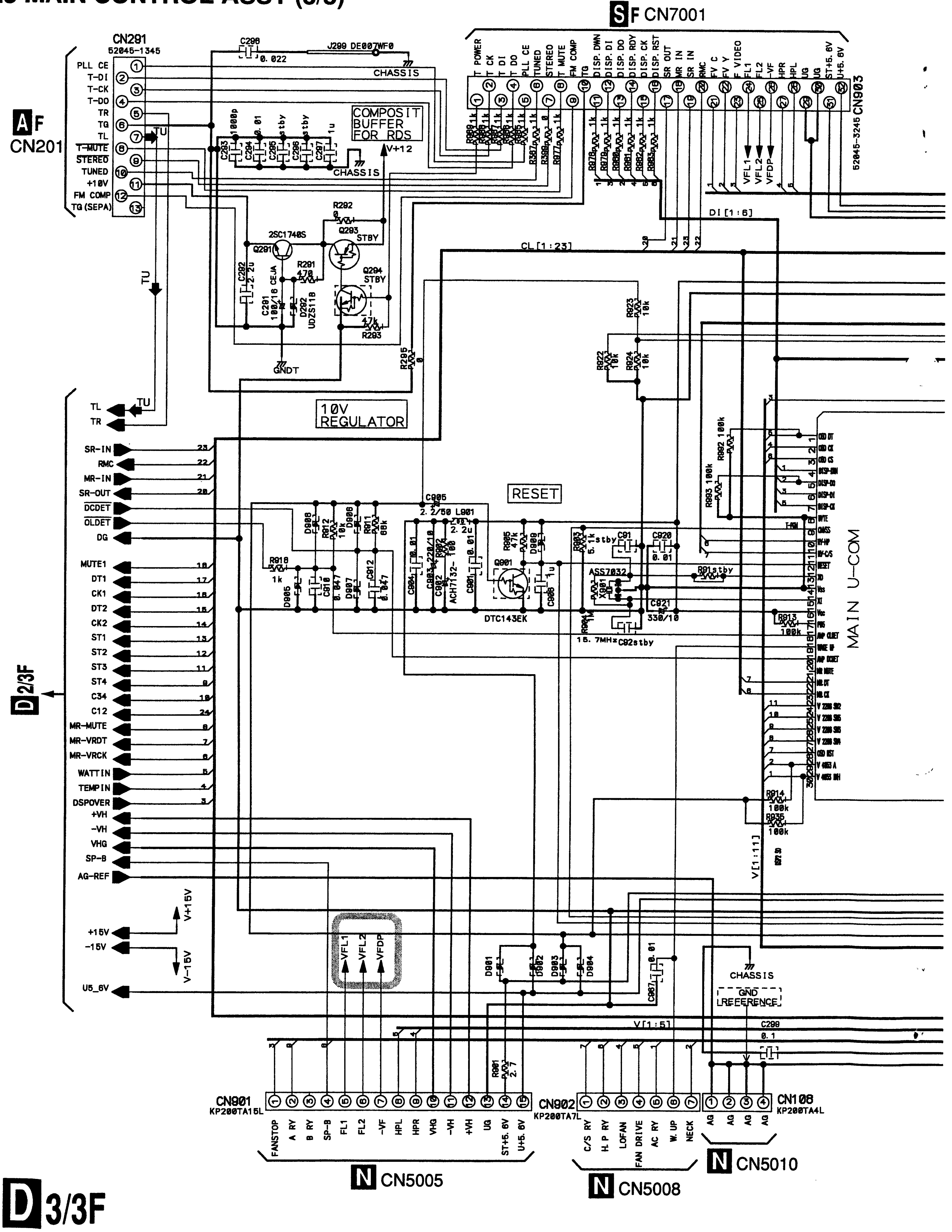
3.4 MAIN CONTROL ASSY (2/3)


D 1/3F
-15V
+15V
SR-IN
RMC
MR-IN
SR-OUT
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
MRVR-CK
MRVR-DT
AG-REF
TL
TR
DSP-OL
UG
D 3/3F
SR-IN
RMC
MR-IN
SR-OUT
-15V
+15V
CK1
ST1
DT1
ST2
CK2
DT2
ST4
C12
C34
ST3
MR-MUTE
V+15V
V-15V
C3[0:24]
D 2/3 F MAIN CONTROL ASSY
(AWX7594)
PREAMP SECTION
IC111(1/2) UPC4570G2
IC111(2/2) UPC4570G2
IC110(1/2) UPC4570G2
IC110(2/2) UPC4570G2
IC112(1/2) UPC4570G2
IC112(2/2) UPC4570G2
IC109 TC9163AF
SL
SR
FR
FL
SW
C
VSS
VDD
ST
DG
DT
CK
+24dB
+20dB
NOT USE
ALL-OPEN
+10dB
D 1/3F
SLVOLOUT
AG-S
SRVOLOUT
FRVOLOUT
AG-F
FLVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
C167 10/50
C168 10/50
C156 10/50
C155 10/50
C164 10/50
C163 10/50
C187 10/50
C188 10/50
C180 10/50
C179 10/50
C169 100p
C170 100p
C171 56p
C172 56p
C177 0.01
C178 0.01
C165 0.01
C166 0.01
C185 0.01
C186 0.01
C189 0.01
C190 0.01
C964 100p
C952 100p
C963 100p
C183 56p
C184 0.033
R163 100k
R164 100k
R165 10k
R166 10k
R175 100k
R176 100k
R177 10k
R178 10k
R161 100k
R162 100k
R185 100k
R186 100k
27dB/23dB/13dB

: The power supply is shown with the marked box.


D 3/3F
: AUDIO SIGNAL ROUTE
MR-VRCK
MR-VRDT
AG-REF
TL
TR
DSPOVER
DG
U+5V
DCDET
OLDET
TEMPIN
MUTE1
+VH
VHG
-VH
SP-B
U5_6V
WATTIN
V+15V
V-15V
470k R251
R253 100k
D251
R252 100k
IC251(1/2) NJM4558MD
IC251(2/2) NJM4558MD
0.01 C255
0.01 C256
0.01 C253
0.01 C254
D252
R254 1k
R255 39k
C252 47/25
D253 UDZS5.1B
CN105 52045-2245
C2[1:9]
-VH
VHG
+VH
DC DET
OL DET
AG
C
AG
FL
AG
FR
AG
SL
AG
SR
AG
A MUTE1
U+5.6V
TEMP
B RY
A+15V
A-15V
I F CN2001
10/50 C175
R173 100k
R174 100k
C176 10/50
R211 100k
R212 100k
R213 100k
R214 100k
R215 100k
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
TC9215 C12
TC9215 C34
EVOL-DT
TC9459 ST
EVOL-CK
UG
CN106 AKP7060
E F CN1504
V-15V
V+15V
CN107 AKP7058
-15V
SW IN
SR IN
SL IN
AG
AG
AG
C IN
FR IN
FL IN
+15V
E F CN1502
EX[1:7]
SBL
SBR
EX-FR
EX-FL
EX-C
EX-SW
EX-SL
EX-SR
AG-PRE
D 1/3F

3.5 MAIN CONTROL ASSY (3/3)


S F CN7001
CN291
52045-1345
PLL CE
T-DI
T-CK
T-DO
TR
TG
TL
T-MUTE
STEREO
TUNED
+10V
FM COMP
TG (SEPA)
A F
CN201
TU
C290
0.022
J290 DE007WF0
CHASSIS
COMPOSIT
BUFFER
FOR RDS
V+12
C293 1000p
C294 0.01
C295 stby
C296 stby
C297 1u
CHASSIS
R292
0
Q293
STBY
2SC1740S
Q291
R291
470
Q294
STBY
C292 2.2u
C291 100/16 CEJA
D292 UDZ511B
47k
R293
GNDT
R295 0
10V
REGULATOR
T POWER
T CK
T DI
T DO
PLL CE
TUNED
STEREO
T MUTE
FM COMP
TG
DISP. DWN
DISP. DI
DISP. DO
DISP. RDY
DISP. CK
DISP. RST
SR OUT
MR IN
SR IN
RMC
FV C
FV Y
F VIDEO
FL1
FL2
-VF
HPR
HPL
UG
ST+5.6V
U+5.6V
CN903
52045-3245
R880 1k
R307 1k
R309 0
R877 1k
R878 1k
R879 1k
R880 1k
R881 1k
R882 1k
R883 1k
VFL1
VFL2
VFDP
DI [1:6]
CL [1:23]
R923 10k
R922 10k
R924 10k
TL
TR
SR-IN
RMC
MR-IN
SR-OUT
DCDET
OLDET
DG
MUTE1
DT1
CK1
DT2
CK2
ST1
ST2
ST3
ST4
C34
C12
MR-MUTE
MR-VRDT
MR-VRCK
WATTIN
TEMPIN
DSPOVER
+VH
-VH
VHG
SP-B
AG-REF
D 2/3F
RESET
C905
2.2/50
L901
2.2u
D908
R912 10k
D906
R911 68k
R910
1k
D905
C910
D907
C912 0.047
0.047
C904 0.01
C903 220/10
C902 ACH7132-100
C901 0.01
R905 47k
D909
Q901
C906 1u
DTC143EK
R903 5.1k
C91 stby
C920 0.01
ASS7032
X901
R904 1M
C921 330/10
16.7MHz
C92 stby
R91 stby
R992 100k
R993 100k
R913 100k
R914 100k
R935 100k
V[1:11]
MAIN U-COM
OSD DT
OSD CK
OSD CS
DISP-DWN
DISP-DO
DISP-DI
DISP-CK
BYTE
CNVSS
RY-HP
RY-C/S
RESET
XO
Vss
XI
Vcc
PWS
AMP CLOET
WAKE UP
AMP DCDET
MR MUTE
MR DT
MR CK
V 2200 SW2
V 2200 SW5
V 2200 SW6
V 2200 SW4
OSD RST
V 4053 A
V 4053 INH
V+15V
+15V
-15V
V-15V
U5_6V
VFL1
VFL2
VFDP
D901
D902
D903
D904
C907 0.01
CHASSIS
GND
REFERENCE
V[1:5]
C298
0.1
R901 2.7
CN901
KP200TA15L
FANSTOP
A RY
B RY
SP-B
FL1
FL2
-VF
HPL
HPR
VHG
-VH
+VH
UG
ST+5.6V
U+5.6V
CN902
KP200TA7L
C/S RY
H.P RY
LOFAN
FAN DRIVE
AC RY
W.UP
NECK
CN106
KP200TA4L
AG
AG
AG
AG
N CN5005
N CN5008
N CN5010
A
B
C
D

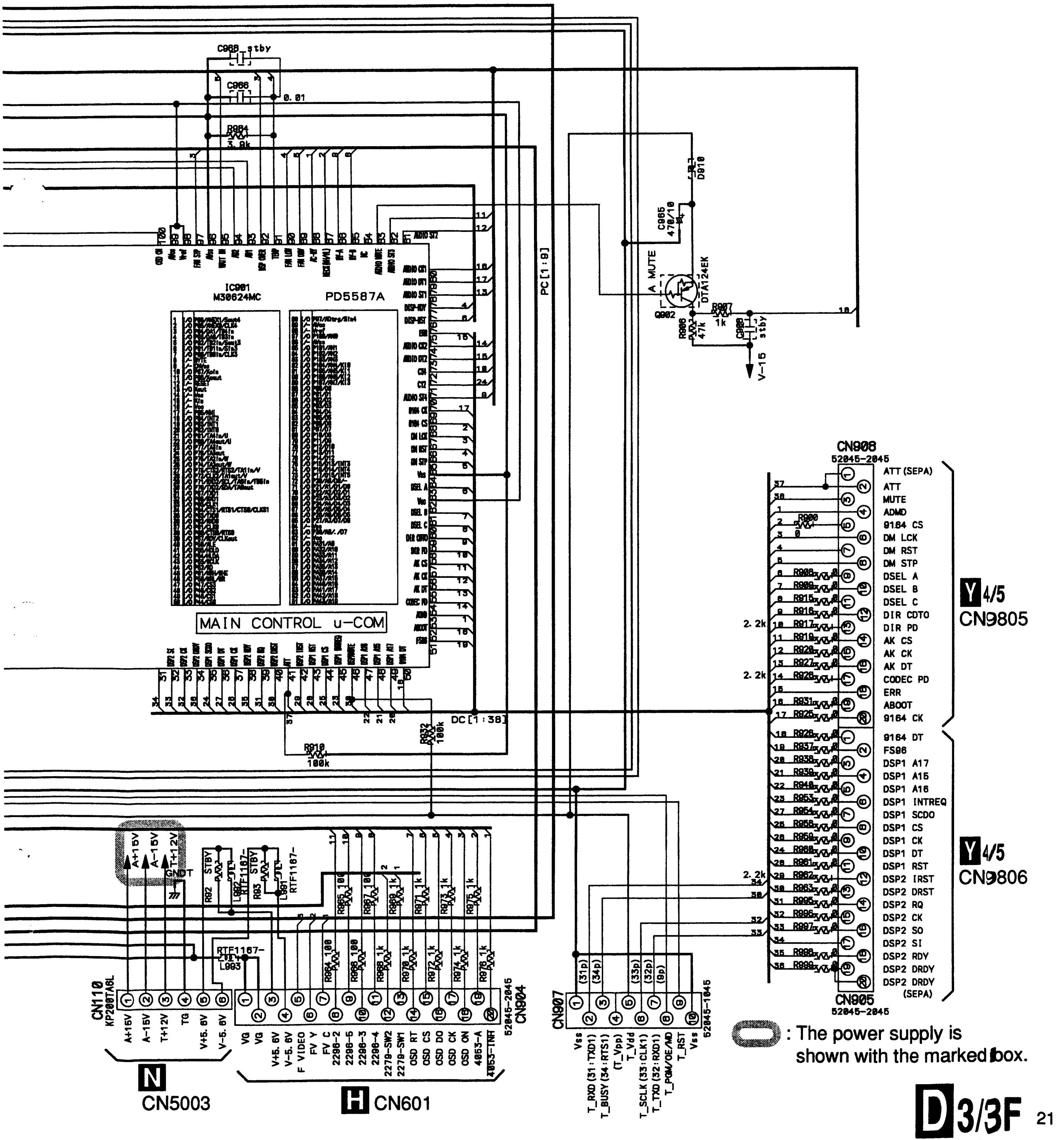
A

D 3/3 F MAIN CONTROL ASSY (AWX7594)

TU: AUDIO SIGNAL ROUTE (TUNER)

B

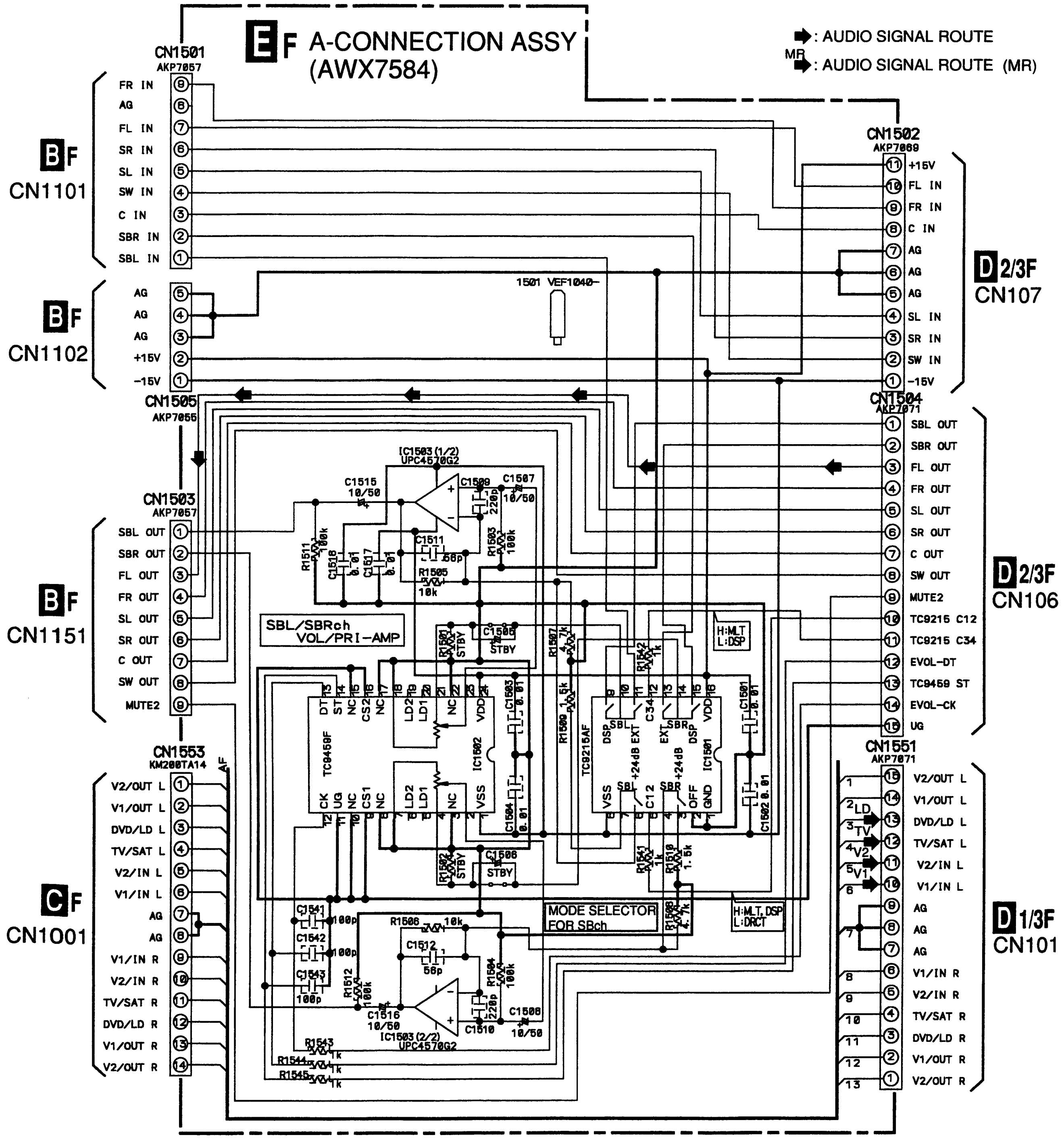
C


C908 stby
C906
0.01
R904 3.9k
D910
C905 470/10
A MUTE
DTA124EK
Q902
R907 1k
R906 47k
C903 stby
V-15
PC[1:9]
IC901 M30624MC
PD5587A
MAIN CONTROL u-COM
DC[1:38]
R932 100k
R910 100k
CN908 52045-2045
ATT (SEPA)
ATT
MUTE
ADMD
9164 CS
DM LCK
DM RST
DM STP
DSEL A
DSEL B
DSEL C
DIR CDTO
DIR PD
AK CS
AK CK
AK DT
CODEC PD
ERR
ABOOT
9164 CK
9164 DT
FS96
DSP1 A17
DSP1 A15
DSP1 A16
DSP1 INTREQ
DSP1 SCDO
DSP1 CS
DSP1 CK
DSP1 DT
DSP1 RST
DSP2 IRST
DSP2 DRST
DSP2 RQ
DSP2 CK
DSP2 SO
DSP2 SI
DSP2 RDY
DSP2 DRDY
DSP2 DRDY (SEPA)
CN905 52045-2045
Y 4/5 CN9805
Y 4/5 CN9806
2.2k
A+15V
A-15V
T+12V
GND T
STBY
RTF1167-
R92
R93
L902
L901
L903
CN110 KP200TA6L
A+15V
A-15V
T+12V
TG
V+5.6V
V-5.6V
N CN5003
CN904 52045-2045
VG
VG
V+5.6V
V-5.6V
F VIDEO
FV Y
FV C
2286-2
2286-5
2286-3
2286-4
2279-SW2
2279-SW1
OSD RT
OSD CS
OSD DO
OSD CK
OSD ON
4053-A
4053-TNF
H CN601
CN907 52045-1045
Vss
T_RXD (31:TXD1)
T_BUSY (34:RTS1)
(T_Vpp)
T_Vdd
T_SCLK (33:CLK1)
T_TXD (32:RXD1)
T_PGM/OE/MD
T_RST
Vss

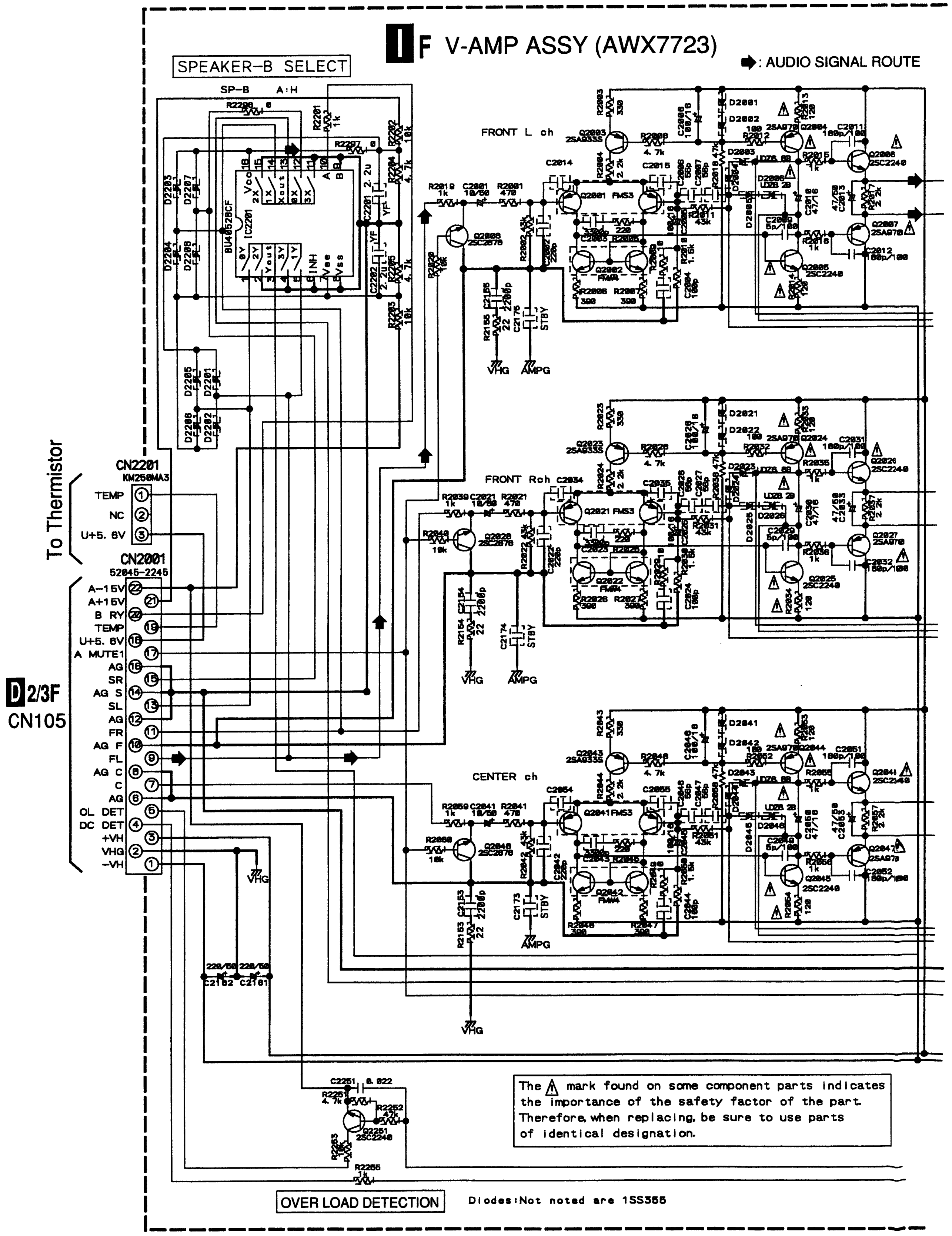
: The power supply is shown with the marked box.

D

3.6 A-CONNECTION and V-AMP ASSYS


E F A-CONNECTION ASSY
(AWX7584)
: AUDIO SIGNAL ROUTE
MR : AUDIO SIGNAL ROUTE (MR)
B F
CN1101
CN1501
AKP7057
FR IN 9
AG 8
FL IN 7
SR IN 6
SL IN 5
SW IN 4
C IN 3
SBR IN 2
SBL IN 1
B F
CN1102
AG 5
AG 4
AG 3
+15V 2
-15V 1
CN1505
AKP7055
1501 VEF1040-
CN1502
AKP7069
11 +15V
10 FL IN
9 FR IN
8 C IN
7 AG
6 AG
5 AG
4 SL IN
3 SR IN
2 SW IN
1 -15V
D 2/3F
CN107
CN1504
AKP7071
1 SBL OUT
2 SBR OUT
3 FL OUT
4 FR OUT
5 SL OUT
6 SR OUT
7 C OUT
8 SW OUT
9 MUTE2
10 TC9215 C12
11 TC9215 C34
12 EVOL-DT
13 TC9459 ST
14 EVOL-CK
15 UG
D 2/3F
CN106
B F
CN1151
CN1503
AKP7057
SBL OUT 1
SBR OUT 2
FL OUT 3
FR OUT 4
SL OUT 5
SR OUT 6
C OUT 7
SW OUT 8
MUTE2 9
IC1503 (1/2)
UPC4570G2
C1515 10/50
C1509 220p
C1507 10/50
R1511 100k
C1518 0.01
C1517 0.01
C1511 56p
R1505 10k
R1503 100k
SBL/SBRch
VOL/PRI-AMP
R1501
STBY
C1505
STBY
R1507 4.7k
R1542 1k
H:MLT
L:DSP
TC9459F
IC1502
DT ST NC CS2 NC LD2 LD1 NC VDD
CK UG NC CS1 NC LD2 LD1 NC VSS
C1503 0.01
C1504 0.01
R1509 1.5k
TC9215AF
IC1501
DSP SBL C34 EXT +24dB EXT SBR DSP VDD
VSS SBL C12 +24dB SBR OFF GND
C1501 0.01
C1502 0.01
R1502
STBY
C1506
STBY
R1541 1k
R1510 1.5k
R1508 4.7k
MODE SELECTOR
FOR SBch
H:MLT, DSP
L:DRCT
C1541 100p
C1542 100p
C1543 100p
R1506 10k
C1512 56p
R1512 100k
R1504 100k
C1510 220p
C1516 10/50
C1508 10/50
IC1503 (2/2)
UPC4570G2
R1543 1k
R1544 1k
R1545 1k
C F
CN1001
CN1553
KM200TA14
AF
V2/OUT L 1
V1/OUT L 2
DVD/LD L 3
TV/SAT L 4
V2/IN L 5
V1/IN L 6
AG 7
AG 8
V1/IN R 9
V2/IN R 10
TV/SAT R 11
DVD/LD R 12
V1/OUT R 13
V2/OUT R 14
CN1551
AKP7071
15 V2/OUT L
14 V1/OUT L
13 DVD/LD L
12 TV/SAT L
11 V2/IN L
10 V1/IN L
9 AG
8 AG
7 AG
6 V1/IN R
5 V2/IN R
4 TV/SAT R
3 DVD/LD R
2 V1/OUT R
1 V2/OUT R
LD
TV
V2
V1
D 1/3F
CN101

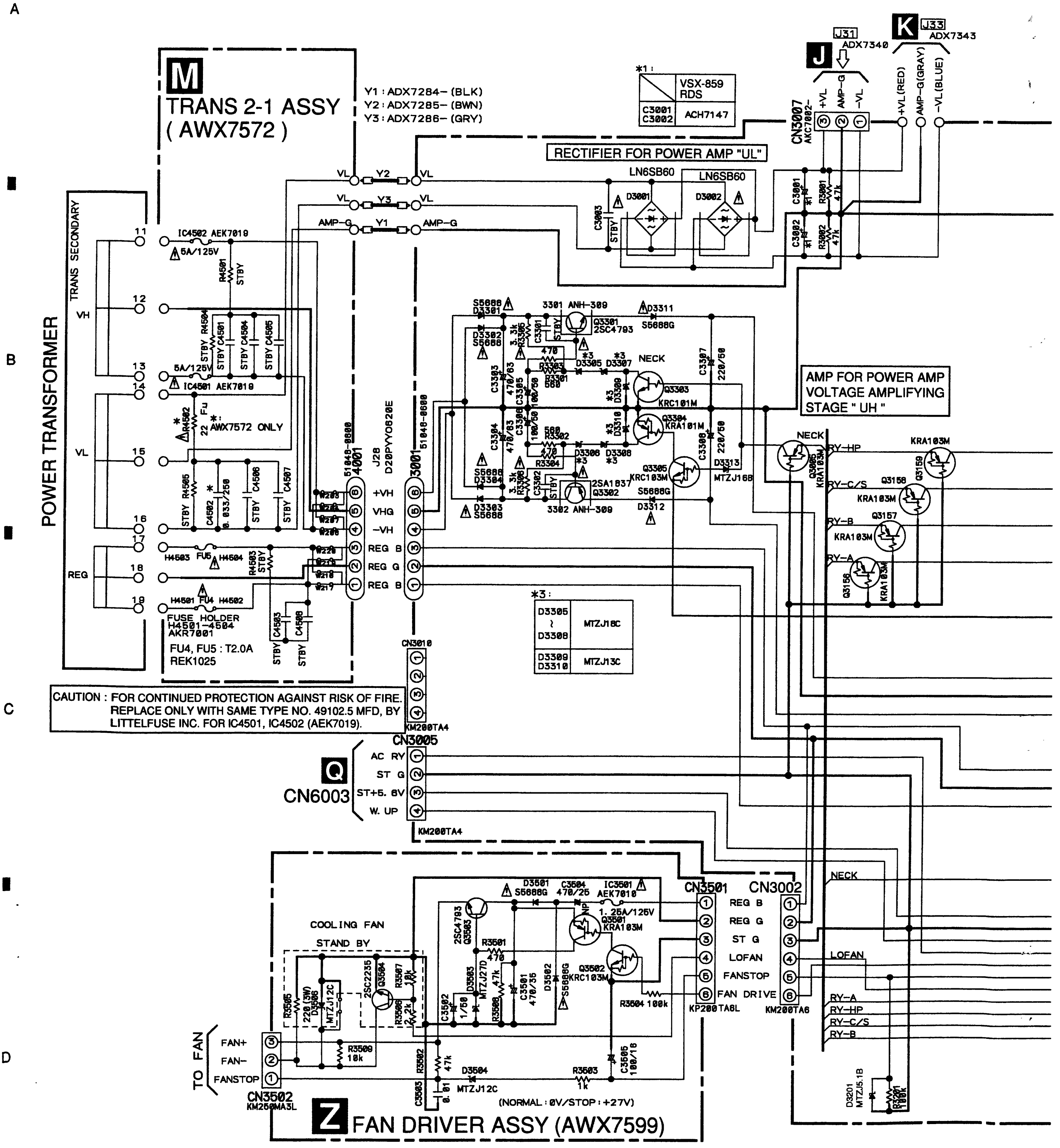
I F V-AMP ASSY (AWX7723)


➡: AUDIO SIGNAL ROUTE
SPEAKER-B SELECT
SP-B A:H
R2206 0
R2201 1k
R2207 0
R2202 10k
R2204 4.7k
R2205 4.7k
R2203 10k
IC2201 BU4052BCF
C2201 2.2u
C2202 2.2u
D2203
D2207
D2204
D2208
D2205
D2201
D2206
D2202
To Thermistor
CN2201 KM250MA3
TEMP ①
NC ②
U+5.6V ③
CN2001 52045-2245
D 2/3F CN105
A-15V ㉒
A+15V ㉑
B RY ⑳
TEMP ⑲
U+5.6V ⑱
A MUTE1 ⑰
AG ⑯
SR ⑮
AG S ⑭
SL ⑬
AG ⑫
FR ⑪
AG F ⑩
FL ⑨
AG C ⑧
C ⑦
AG ⑥
OL DET ⑤
DC DET ④
+VH ③
VHG ②
-VH ①
FRONT L ch
FRONT Rch
CENTER ch
Q2003 2SA933S
Q2001 FMS3
Q2002 FMW4
Q2008 2SC2878
Q2004 2SA970
Q2006 2SC2240
Q2007 2SA970
Q2005 2SC2240
Q2023 2SA933S
Q2021 FMS3
Q2022 FMW4
Q2028 2SC2878
Q2024 2SA970
Q2026 2SC2240
Q2027 2SA970
Q2025 2SC2240
Q2043 2SA933S
Q2041 FMS3
Q2042 FMW4
Q2048 2SC2878
Q2044 2SA970
Q2046 2SC2240
Q2047 2SA970
Q2045 2SC2240
UDZ6.8B
UDZ9.1B
C2155 2200p
R2155 22
C2176 STBY
C2154 2200p
R2154 22
C2174 STBY
C2153 2200p
R2153 22
C2173 STBY
VHG
AMPG
220/50 220/50
C2162 C2161
C2251 0.022
R2251 4.7k
R2252 47k
Q2251 2SC2240
R2253 10k
R2255 1k
OVER LOAD DETECTION

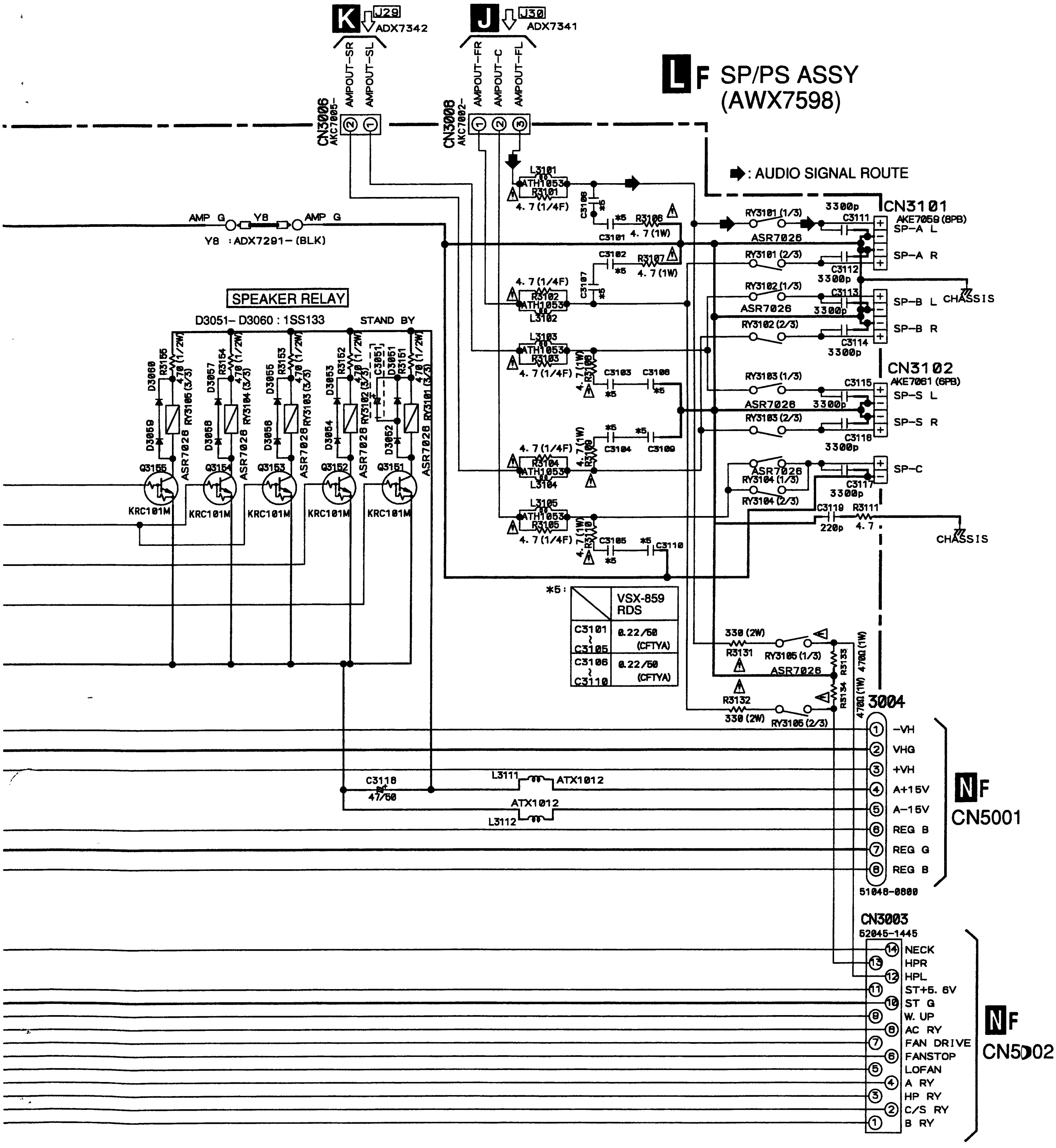
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Diodes:Not noted are 1SS355

3.7 TRANS 2-1, FAN DRIVER and SP/PS ASSYS


A
B
C
D
M
TRANS 2-1 ASSY
(AWX7572)
Y1 : ADX7284- (BLK)
Y2 : ADX7285- (BWN)
Y3 : ADX7286- (GRY)
POWER TRANSFORMER
TRANS SECONDARY
VH
VL
REG
11
12
13
14
15
16
17
18
19
IC4502 AEK7019
5A/125V
R4501 STBY
STBY R4504
STBY C4501
STBY C4504
STBY C4505
5A/125V
IC4501 AEK7019
R4502 22 Fu
*: AWX7572 ONLY
STBY R4505
C4502 0.033/250
STBY C4506
STBY C4507
H4503 FU5 H4504
R4503 STBY
H4501 FU4 H4502
FUSE HOLDER
H4501-4504
AKR7001
FU4, FU5 : T2.0A
REK1025
STBY C4503
STBY C4508
W208
W209
W207
W206
W220
W219
W218
W217
51048-0800
4001
J28
D20PYY0820E
3001
51048-0800
+VH
VHG
-VH
REG B
REG G
REG B
VL
Y2
VL
VL
Y3
VL
AMP-G
Y1
AMP-G
*1 :
VSX-859 RDS
C3001 C3002
ACH7147
RECTIFIER FOR POWER AMP "UL"
LN6SB60
LN6SB60
D3001
D3002
C3003 STBY
C3001 *1
R3001 47k
C3002 *1
R3002 47k
CN3007
AKC7002-
+VL
AMP-G
-VL
J
J31
ADX7340
K
J33
ADX7343
+VL (RED)
AMP-G (GRAY)
-VL (BLUE)
S5688 D3301
3301 ANH-309
D3311
Q3301 2SC4793
S5688G
D3302 S5688
3.3k R3305
C3301
STBY
470
R3303
R3301 560
*3 D3305
*3 D3307
NECK
C3303 470/63
C3305 100/50
*3 D3309
Q3303 KRC101M
C3307 220/50
AMP FOR POWER AMP
VOLTAGE AMPLIFYING
STAGE " UH "
C3304 470/63
C3306 100/50
560 R3302
470
R3304
*3 D3310
Q3304 KRA101M
D3306 D3308
*3 *3
Q3305 KRC103M
C3308 220/50
D3313 MTZJ16B
S5688 D3304
3.3k R3306
C3302 STBY
2SA1037 Q3302
S5688G
D3312
3302 ANH-309
D3303 S5688
NECK
Q3005 KRA103M
RY-HP
KRA103M
Q3159
RY-C/S
Q3158
KRA103M
Q3157
RY-B
KRA103M
RY-A
Q3156
KRA103M
*3 :
D3305 ~ D3308 MTZJ18C
D3309 D3310 MTZJ13C
CN3010
KM200TA4
CN3005
Q
CN6003
AC RY
ST G
ST+5.6V
W. UP
KM200TA4
D3501 S5688G
C3504 470/25
IC3501 AEK7010
1.25A/125V
NP
Q3501 KRA103M
2SC4793 Q3503
R3501 470
COOLING FAN STAND BY
2SC2235 Q3504
R3507 10k
R3505 220(3W)
D3506 MTZJ12C
R3506 2.2k
C3502 1/50
D3503 MTZJ27D
R3508 47k
C3501 470/35
D3502 S5688G
Q3502 KRC103M
R3504 100k
CN3501
REG B
REG G
ST G
LOFAN
FANSTOP
FAN DRIVE
KP200TA6L
CN3002
KM200TA6
NECK
LOFAN
RY-A
RY-HP
RY-C/S
RY-B
TO FAN
FAN+
FAN-
FANSTOP
CN3502
KM250MA3L
R3509 10k
R3502 47k
C3503 0.01
D3504 MTZJ12C
R3503 1k
C3505 100/16
(NORMAL : 0V/STOP : +27V)
D3201 MTZJ5.1B
R3201 100k
Z
FAN DRIVER ASSY (AWX7599)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY LITTELFUSE INC. FOR IC4501, IC4502 (AEK7019).


K J29 ADX7342
J J30 ADX7341
AMPOUT-SR
AMPOUT-SL
AMPOUT-FR
AMPOUT-C
AMPOUT-FL
CN3006 AKC7005-
CN3008 AKC7002-
L F SP/PS ASSY (AWX7598)
: AUDIO SIGNAL ROUTE
AMP G
Y8
Y8 : ADX7291- (BLK)
SPEAKER RELAY
D3051- D3060 : 1SS133
STAND BY
L3101 ATH1053
R3101 4.7 (1/4F)
L3102 ATH1053
R3102 4.7 (1/4F)
L3103 ATH1053
R3103 4.7 (1/4F)
L3104 ATH1053
R3104 4.7 (1/4F)
L3105 ATH1053
R3105 4.7 (1/4F)
R3106 4.7 (1W)
R3107 4.7 (1W)
R3108 4.7 (1W)
R3109 4.7 (1W)
R3110 4.7 (1W)
C3101 C3102 C3103 C3104 C3105
C3106 C3107 C3108 C3109 C3110
*5
RY3101 (1/3) RY3101 (2/3)
RY3102 (1/3) RY3102 (2/3)
RY3103 (1/3) RY3103 (2/3)
RY3104 (1/3) RY3104 (2/3)
RY3105 (1/3) RY3105 (2/3)
ASR7026
C3111 C3112 C3113 C3114 C3115 C3116 C3117 3300p
CN3101 AKE7059 (8PB)
SP-A L
SP-A R
SP-B L
SP-B R
CHASSIS
CN3102 AKE7061 (6PB)
SP-S L
SP-S R
SP-C
C3119 220p
R3111 4.7
CHASSIS
R3131 330 (2W)
R3132 330 (2W)
R3133 470Ω (1W)
R3134 470Ω (1W)
D3060 D3059 D3057 D3058 D3055 D3056 D3053 D3054 D3051 D3052
R3155 R3154 R3153 R3152 R3151 470 (1/2W)
C3051
RY3105 (3/3) RY3104 (3/3) RY3103 (3/3) RY3102 (3/3) RY3101 (3/3)
ASR7026
Q3155 Q3154 Q3153 Q3152 Q3151
KRC101M
C3118 47/50
L3111 ATX1012
L3112 ATX1012
CN3004
-VH
VHG
+VH
A+15V
A-15V
REG B
REG G
REG B
51048-0800
N F CN5001
CN3003 52045-1445
NECK
HPR
HPL
ST+5.6V
ST G
W. UP
AC RY
FAN DRIVE
FANSTOP
LOFAN
A RY
HP RY
C/S RY
B RY
N F CN5002

*5:

	VSX-859 RDS
C3101 ~ C3105	0.22/50 (CFTYA)
C3106 ~ C3110	0.22/50 (CFTYA)

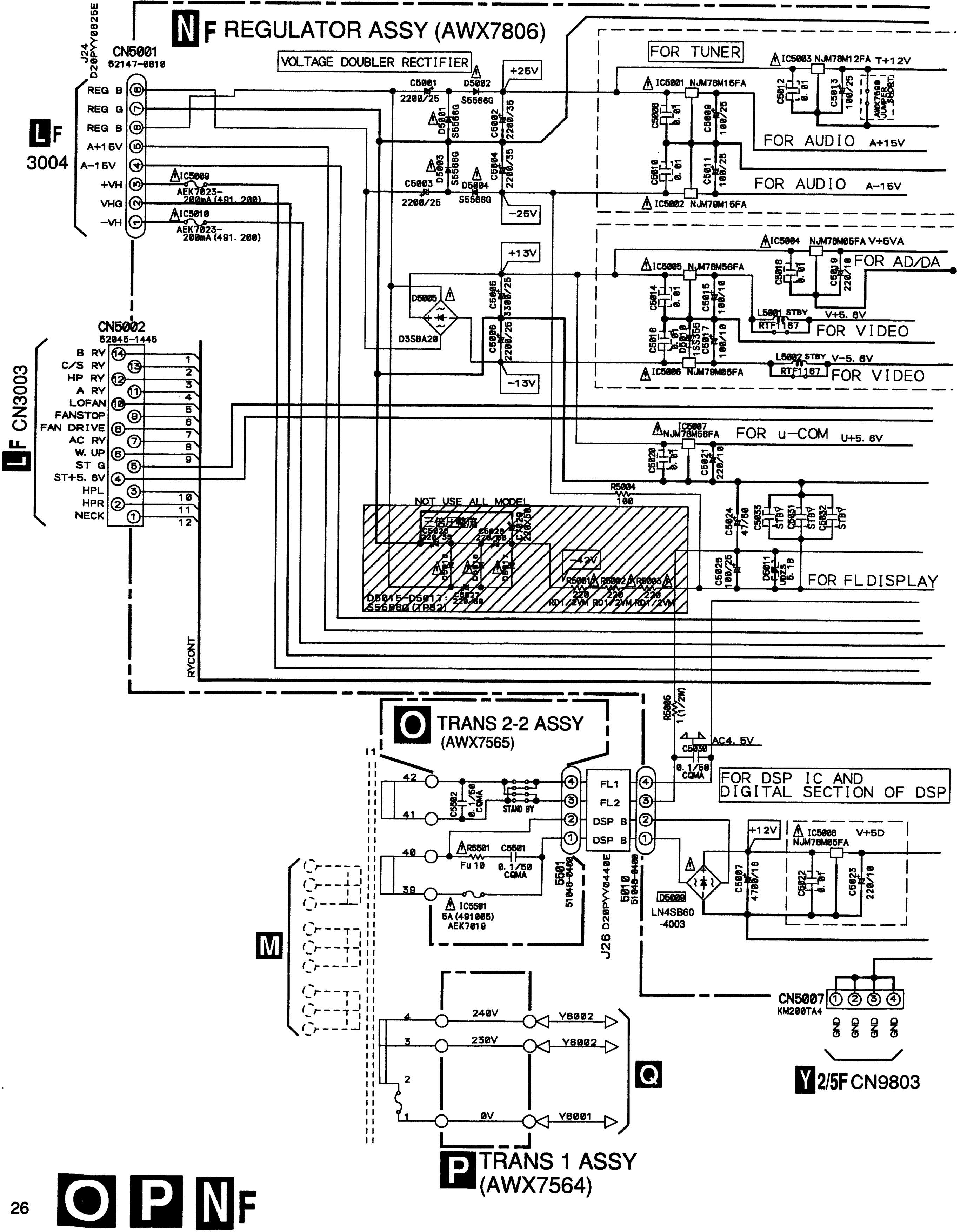
• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

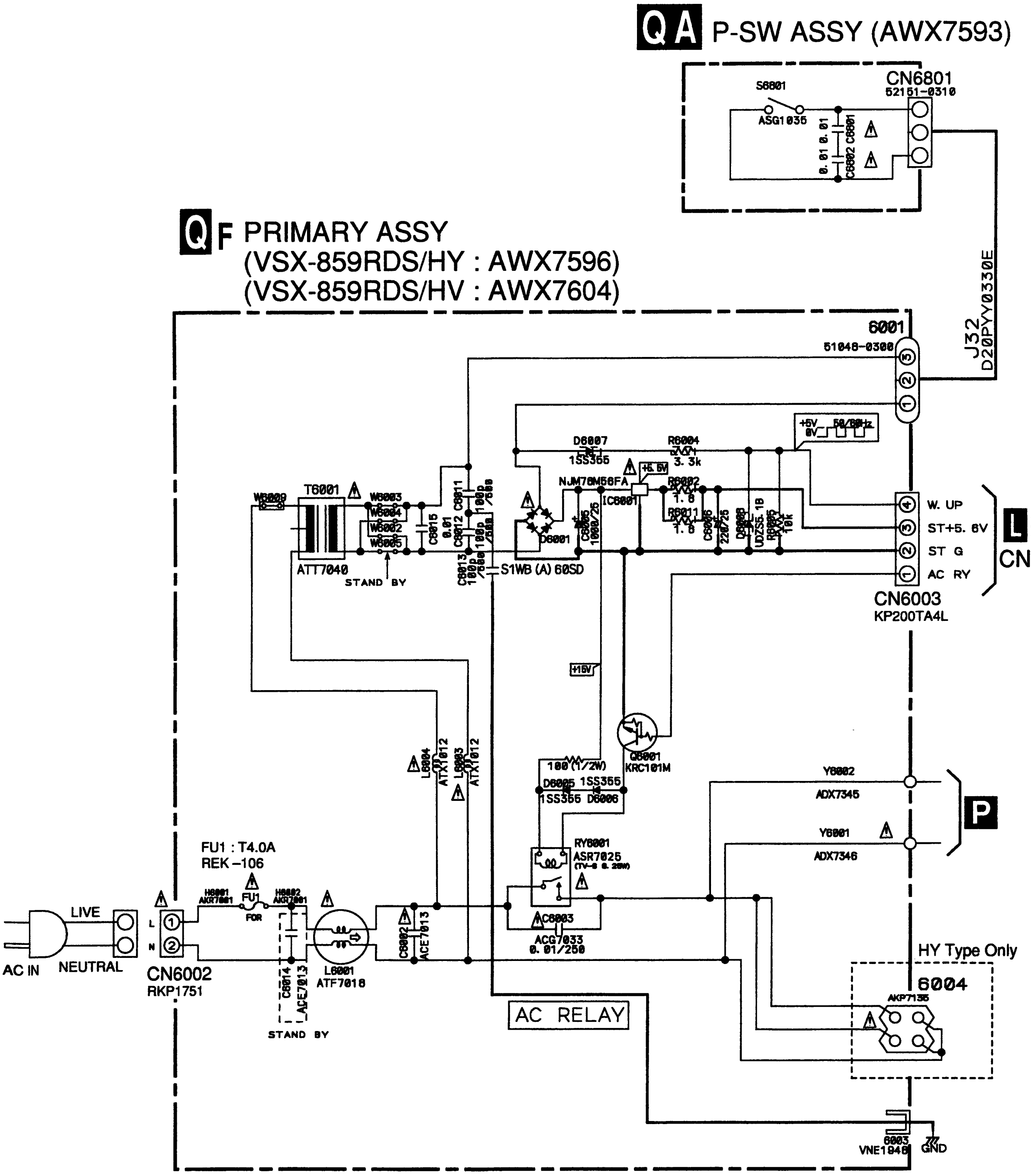
3.7 REGULATOR, TRANS 1 and TRANS 2-2 ASSYS

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INC. FOR IC5009, IC5010 (AEK7023).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491005 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7019).


NF REGULATOR ASSY (AWX7806)
J24 D20PYY0825E
CN5001 52147-0810
REG B
REG G
REG B
A+15V
A-15V
+VH
VHG
-VH
LF 3004
IC5009 AEK7023- 200mA (491. 200)
IC5010 AEK7023- 200mA (491. 200)
VOLTAGE DOUBLER RECTIFIER
C5001 2200/25
D5002 S5566G
D5001 S5566G
+25V
C5002 2200/35
D5003 S5566G
C5004 2200/35
C5003 2200/25
D5004 S5566G
-25V
FOR TUNER
IC5003 NJM78M12FA T+12V
IC5001 NJM78M15FA
C5012 0.01
C5013 100/25
JUMPER SHORT
C5008 0.01
C5009 100/25
FOR AUDIO A+15V
C5010 0.01
C5011 100/25
FOR AUDIO A-15V
IC5002 NJM79M15FA
+13V
D5005
D3SBA20
C5005 3300/25
C5006 2200/25
-13V
IC5004 NJM78M05FA V+5VA
IC5005 NJM78M56FA
C5018 0.01
C5019 220/10
FOR AD/DA
C5014 0.01
C5015 100/10
L5001 STBY RTF1167
V+5.6V
FOR VIDEO
C5016 0.01
D5010 1SS355
C5017 100/10
L5002 STBY RTF1167
V-5.6V
FOR VIDEO
IC5006 NJM79M05FA
CN5002 52045-1445
B RY
C/S RY
HP RY
A RY
LOFAN
FANSTOP
FAN DRIVE
AC RY
W. UP
ST G
ST+5.6V
HPL
HPR
NECK
LF CN3003
IC5007 NJM78M56FA
FOR u-COM U+5.6V
C5020 0.01
C5021 220/10
R5004 100
NOT USE ALL MODEL
C5025 220/35
C5028 220/35
C5029 220/50
D5015-D5017: S5566G (TPB2)
C5027 220/50
-42V
R5001 220 RD1/2VM
R5002 220 RD1/2VM
R5003 220 RD1/2VM
C5024 47/50
C5033 STBY
C5031 STBY
C5032 STBY
C5026 100/25
D5011 UZ-5.1B
FOR FL DISPLAY
RYCONT
R5005 1 (1/2W)
O TRANS 2-2 ASSY (AWX7565)
AC4.5V
C5030 0.1/50 CQMA
FOR DSP IC AND DIGITAL SECTION OF DSP
42
41
C5502 0.1/50 CQMA
STAND BY
FL1
FL2
DSP B
DSP B
40
39
R5501 Fu 10
C5501 0.1/50 CQMA
IC5501 5A (491005) AEK7019
5501 51048-0400
5010 51048-0400
J26 D20PYY0440E
D5009 LN4SB60 -4003
+12V
C5007 4700/16
IC5008 NJM78M05FA V+5D
C5022 0.01
C5023 220/10
M
CN5007 KM200TA4
GND GND GND GND
Y 2/5F CN9803
4 240V Y6002
3 230V Y6002
2
1 0V Y6001
Q
P TRANS 1 ASSY (AWX7564)

3.9 PRIMARY and P-SW ASSYS

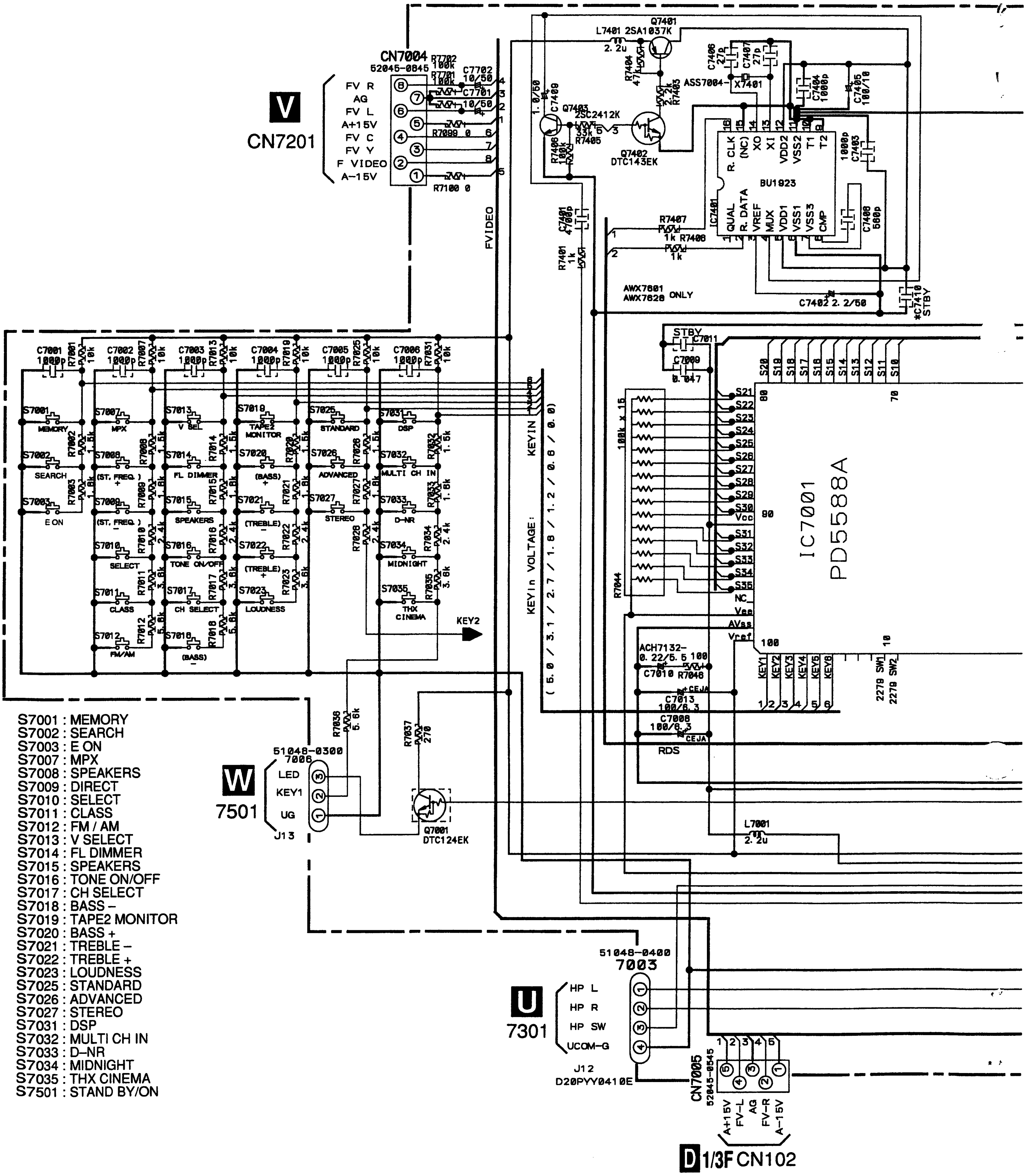

QA P-SW ASSY (AWX7593)
S6001
ASG1035
CN6801
52151-0310
0.01 0.01
C6801
C6802
J32
D20PYY0330E
QF PRIMARY ASSY
(VSX-859RDS/HY : AWX7596)
(VSX-859RDS/HV : AWX7604)
6001
51048-0300
+5V 0V 50/60Hz
D6007
1SS355
R6004
3.3k
NJM78M56FA
+5.6V
IC6001
R6002
1.8
R6011
1.8
C6006
220/25
D6008
UDZS5.1B
R6005
10k
W6009
T6001
ATT7040
W6003
W6004
W6002
W6005
STAND BY
C6015
0.01
C6011
100p /500
C6012
100p /500
C6013
100p /500
S1WB (A) 60SD
D6001
C6005
1000/25
W. UP
ST+5.6V
ST G
AC RY
LF
CN3005
CN6003
KP200TA4L
+15V
Q6001
KRC101M
100 (1/2W)
D6005 1SS355
1SS355 D6006
L6004
ATX1012
L6003
ATX1012
Y6002
ADX7345
Y6001
ADX7346
P
RY6001
ASR7025
(TV-8 8.25W)
FU1 : T4.0A
REK-106
H6001
AKR7001
FU1
FOR
H6002
AKR7001
C6003
ACG7033
0.01/250
LIVE
NEUTRAL
AC IN
L
N
CN6002
RKP1751
C6014
ACE7013
STAND BY
L6001
ATF7018
C6002
ACE7013
AC RELAY
HY Type Only
6004
AKP7135
6003
VNE1948
GND

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

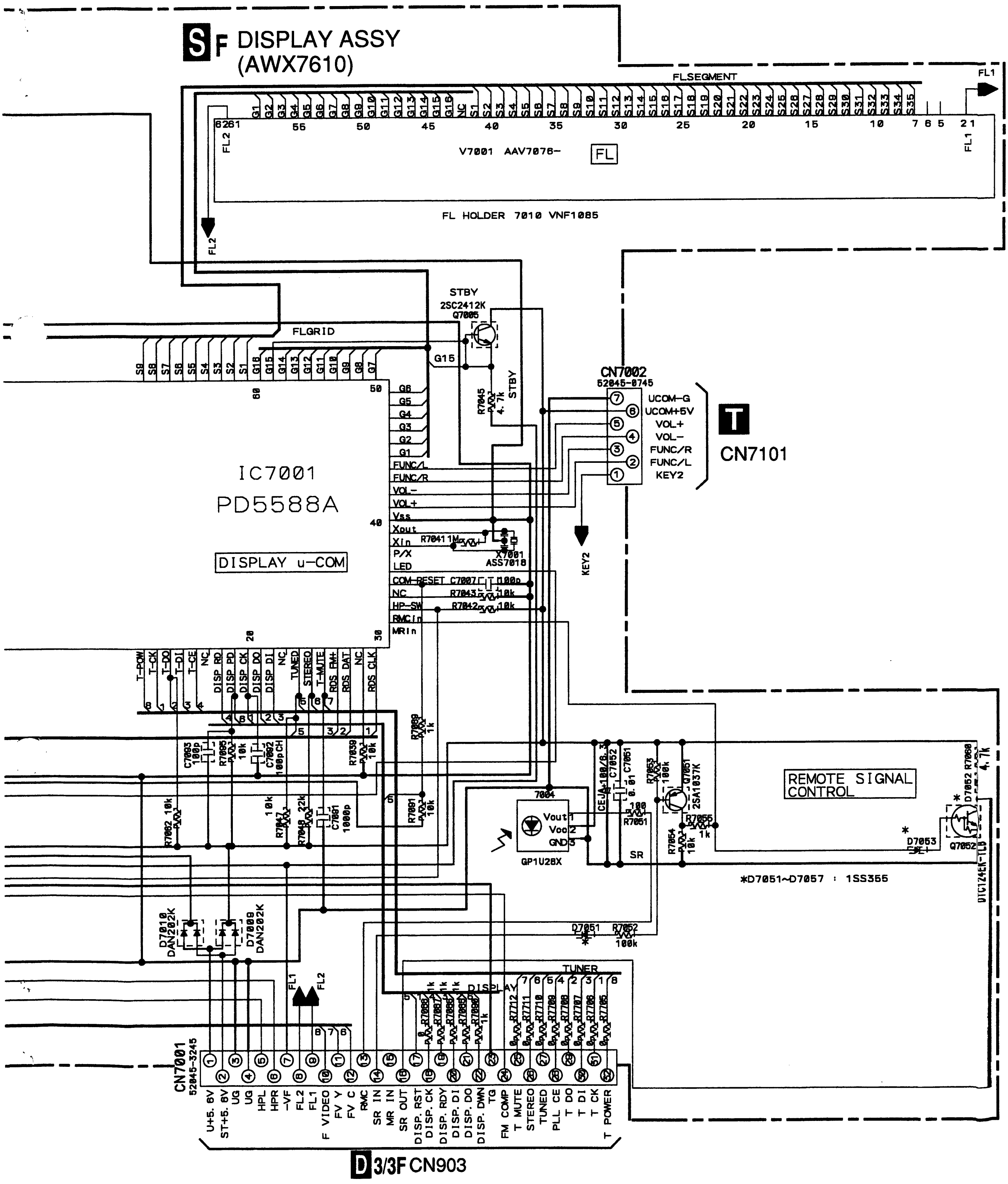
- NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

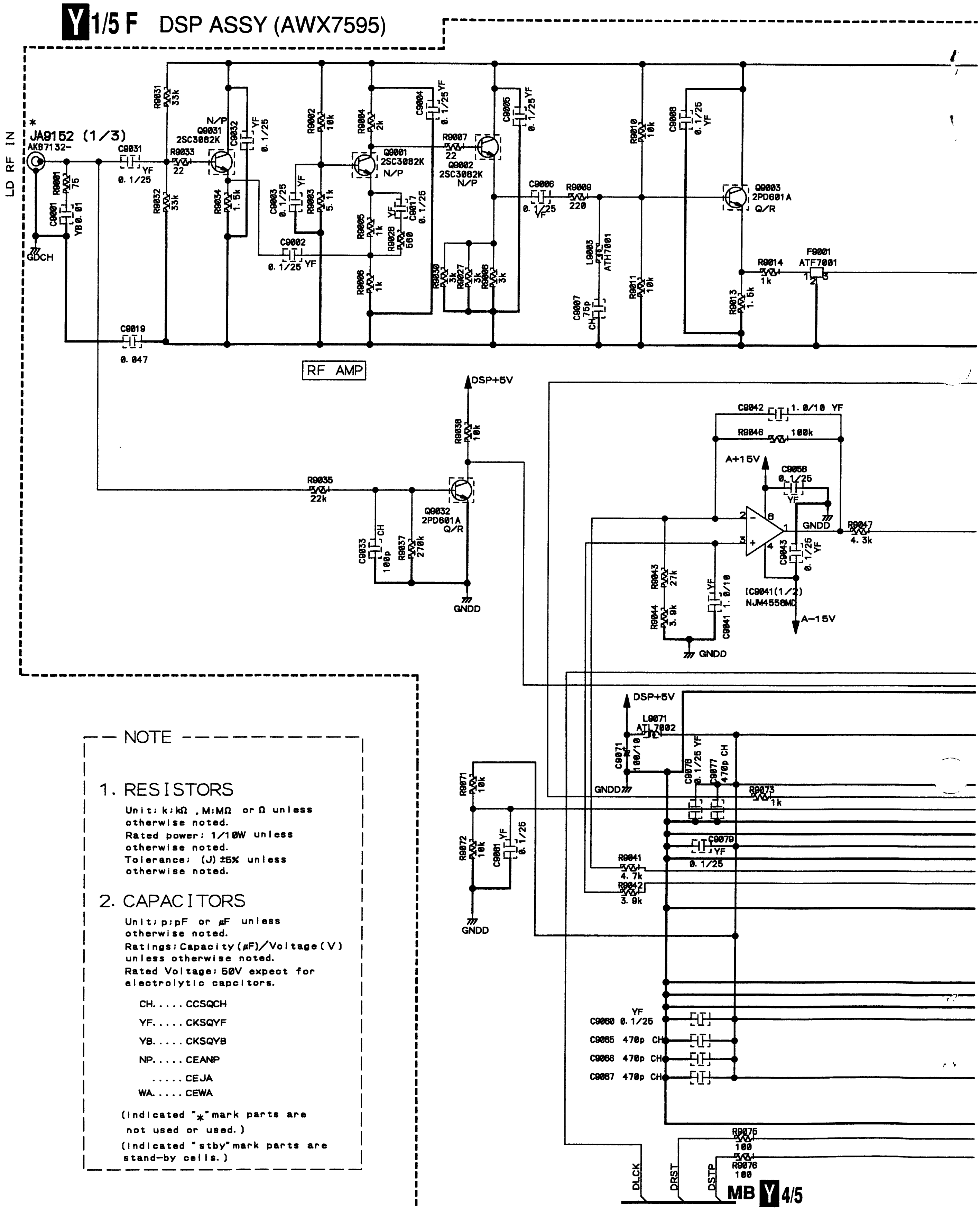
3.10 DISPLAY ASSY


CN7004
52045-0845
FV R
AG
FV L
A+15V
FV C
FV Y
F VIDEO
A-15V
V
CN7201
R7702 100k
R7701 100k
C7702 10/50
C7701 10/50
R7099 0
R7100 0
FVIDEO
L7401 2.2u
Q7401 2SA1037K
Q7403 2SC2412K
Q7402 DTC143EK
R7404 47k
R7403 2.2k
R7405 33k
R7406 100k
C7409 1.0/50
ASS7004-X7401
C7406 27p
C7407 27p
C7404 1000p
C7405 100/10
C7403 1000p
C7408 560p
IC7401
BU1923
R. CLK
(NC)
XO
XI
VDD2
VSS2
T1
T2
QUAL
R. DATA
VREF
MUX
VDD1
VSS1
VSS3
CMP
R7407 1k
R7408 1k
R7401 1k
C7401 4700p
AWX7601
AWX7628 ONLY
C7402 2.2/50
*C7410
STBY
C7011
C7009 0.047
100k x 15
R7044
S20 S19 S18 S17 S16 S15 S14 S13 S12 S11 S10
S21 S22 S23 S24 S25 S26 S27 S28 S29 S30
Vcc
S31 S32 S33 S34 S35
NC
Vee
AVss
Vref
IC7001
PD5588A
KEY1 KEY2 KEY3 KEY4 KEY5 KEY6
2270 SW1
2270 SW2
ACH7132-
0.22/5.5 100
C7010 R7046
CEJA
C7013 100/6.3
C7008 100/6.3
CEJA
RDS
KEYIN
KEYIn VOLTAGE :
(5.0 / 3.1 / 2.7 / 1.8 / 1.2 / 0.6 / 0.0)
C7001 1000p
C7002 1000p
C7003 1000p
C7004 1000p
C7005 1000p
C7006 1000p
R7001 10k
R7007 10k
R7013 10k
R7019 10k
R7025 10k
R7031 10k
MEMORY
SEARCH
E ON
MPX
(ST. FREQ.)
+
(ST. FREQ.)
-
SELECT
CLASS
FM/AM
V SEL
FL DIMMER
SPEAKERS
TONE ON/OFF
CH SELECT
(BASS)
-
TAPE2 MONITOR
(BASS)
+
(TREBLE)
-
(TREBLE)
+
LOUDNESS
STANDARD
ADVANCED
STEREO
DSP
MULTI CH IN
D-NR
MIDNIGHT
THX CINEMA
1.5k
1.8k
2.4k
3.6k
5.6k
KEY2
51048-0300
7006
LED
KEY1
UG
W
7501
J13
R7036 5.6k
R7037 270
Q7001
DTC124EK
L7001 2.2u
51048-0400
7003
HP L
HP R
HP SW
UCOM-G
U
7301
J12
D20PYY0410E
CN7005
52045-0545
A+15V
FV-L
AG
FV-R
A-15V
D 1/3F CN102

S7001 : MEMORY
S7002 : SEARCH
S7003 : E ON
S7007 : MPX
S7008 : SPEAKERS
S7009 : DIRECT
S7010 : SELECT
S7011 : CLASS
S7012 : FM / AM
S7013 : V SELECT
S7014 : FL DIMMER
S7015 : SPEAKERS
S7016 : TONE ON/OFF
S7017 : CH SELECT
S7018 : BASS –
S7019 : TAPE2 MONITOR
S7020 : BASS +
S7021 : TREBLE –
S7022 : TREBLE +
S7023 : LOUDNESS
S7025 : STANDARD
S7026 : ADVANCED
S7027 : STEREO
S7031 : DSP
S7032 : MULTI CH IN
S7033 : D–NR
S7034 : MIDNIGHT
S7035 : THX CINEMA
S7501 : STAND BY/ON


S F DISPLAY ASSY
(AWX7610)
FLSEGMENT
FL1
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12 G13 G14 G15 G16 NC S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35
62 61 55 50 45 40 35 30 25 20 15 10 7 6 5 2 1
FL2
V7001 AAV7076-
FL
FL HOLDER 7010 VNF1085
FL2
STBY
2SC2412K
Q7005
FLGRID
G15
S9 S8 S7 S6 S5 S4 S3 S2 S1 G16 G15 G14 G13 G12 G11 G10 G9 G8 G7
60
50
R7045 4.7k
STBY
CN7002
52045-0745
UCOM-G
UCOM+5V
VOL+
VOL-
FUNC/R
FUNC/L
KEY2
T
CN7101
IC7001
PD5588A
DISPLAY u-COM
G6 G5 G4 G3 G2 G1
FUNC/L FUNC/R VOL- VOL+ Vss Xout XIn P/X LED
40
R7041 1M
X7001
ASS7018
KEY2
COM-RESET C7007 100p
NC R7043 10k
HP-SW R7042 10k
RMCin
MRIn
20
30
T-POW T-CK T-DO T-DI T-CE NC DISP RD DISP PD DISP CK DISP DO DISP DI NC TUNED STEREO T-MUTE RDS FM+ RDS DAT NC RDS CLK
C7003 100p
R7005 10k
C7002 100pCH
R7050 10k
R7069 1k
R7002 10k
R7047 10k
R7048 22k
C7001 1000p
R7001 10k
7004
Vout 1
Vcc 2
GND 3
GP1U28X
CEJA 100/6.3
C7052
C7051 0.01
R7053 100k
Q7051
2SA1037K
R7051 100
R7055 1k
R7054 10k
SR
REMOTE SIGNAL CONTROL
D7052 R7060 4.7k
Q7052
D7053
DTC124EK-TLB
*D7051~D7057 : 1SS355
D7010 DAN202K
D7009 DAN202K
D7051
R7052 100k
TUNER
DISPLAY
FL1 FL2
R7080 1k R7081 1k R7082 1k R7083 1k R7084 1k
R7712 R7711 R7710 R7709 R7708 R7707 R7706 R7705
CN7001
52045-3245
U+5.6V ST+5.6V UG UG HPL HPR -VF FL2 FL1 F VIDEO FV Y FV C RMC SR IN MR IN SR OUT DISP. RST DISP. CK DISP. RDY DISP. DI DISP. DO DISP. DWN TG FM COMP T MUTE STEREO TUNED PLL CE T DO T DI T CK T POWER
D 3/3F CN903

3.11 DSP ASSY (1/5)


Y 1/5 F DSP ASSY (AWX7595)
LD RF IN
JA9152 (1/3)
AKB7132-
GDCH
R9001 75
C9001 YB0.01
C9031 0.1/25 YF
R9033 22
R9031 33k
R9032 33k
Q9031 2SC3082K N/P
C9032 YF 0.1/25
R9034 1.5k
C9019 0.047
R9002 10k
C9003 0.1/25 YF
R9003 5.1k
C9002 0.1/25 YF
R9004 2k
C9004 0.1/25 YF
Q9001 2SC3082K N/P
R9005 1k
R9028 560
C9017 YF 0.1/25
R9006 1k
R9007 22
Q9002 2SC3082K N/P
C9005 0.1/25 YF
R9030 3k
R9027 3k
R9008 3k
C9006 0.1/25 YF
R9009 220
L9003 ATH7001
C9007 75p CH
R9010 10k
R9011 10k
C9008 0.1/25 YF
Q9003 2PD601A Q/R
R9014 1k
R9013 1.5k
F9001 ATF7001
RF AMP
DSP+5V
R9038 10k
R9035 22k
Q9032 2PD601A Q/R
C9033 100p CH
R9037 270k
GNDD
C9042 1.0/10 YF
R9046 100k
A+15V
C9058 0.1/25 YF
GNDD
R9047 4.3k
C9043 0.1/25 YF
IC9041(1/2) NJM4558MD
A-15V
R9043 27k
R9044 3.9k
C9041 1.0/10 YF
GNDD
DSP+5V
L9071 ATL7002
C9071 100/10
GNDD
C9076 0.1/25 YF
C9077 470p CH
R9073 1k
C9079 YF 0.1/25
R9071 10k
R9072 10k
C9081 YF 0.1/25
GNDD
R9041 4.7k
R9042 3.9k
C9080 YF 0.1/25
C9085 470p CH
C9086 470p CH
C9087 470p CH
R9075 100
R9076 100
DLCK
DRST
DSTP
MB Y 4/5

NOTE

1. RESISTORS

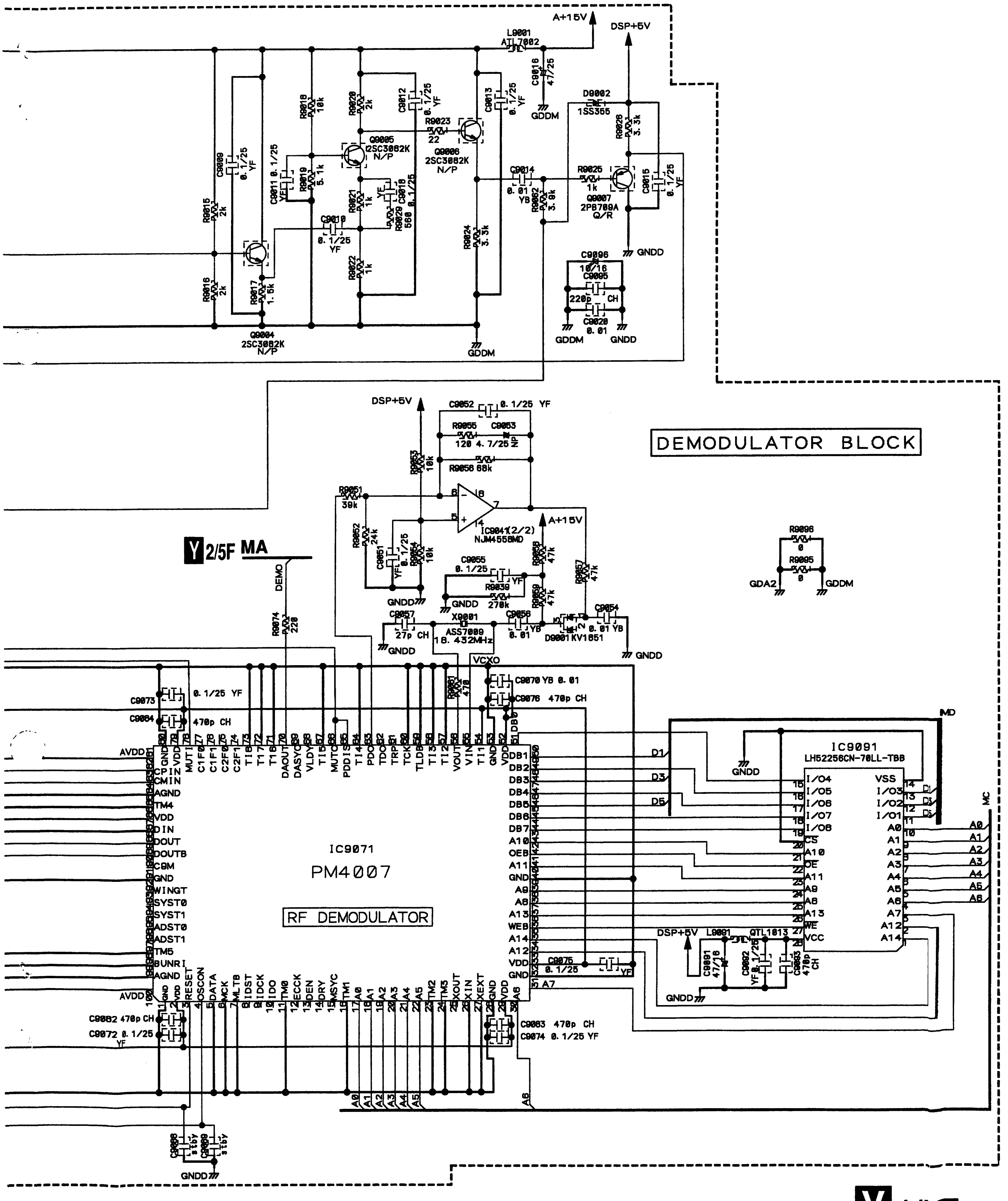
Unit: k:kΩ, M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

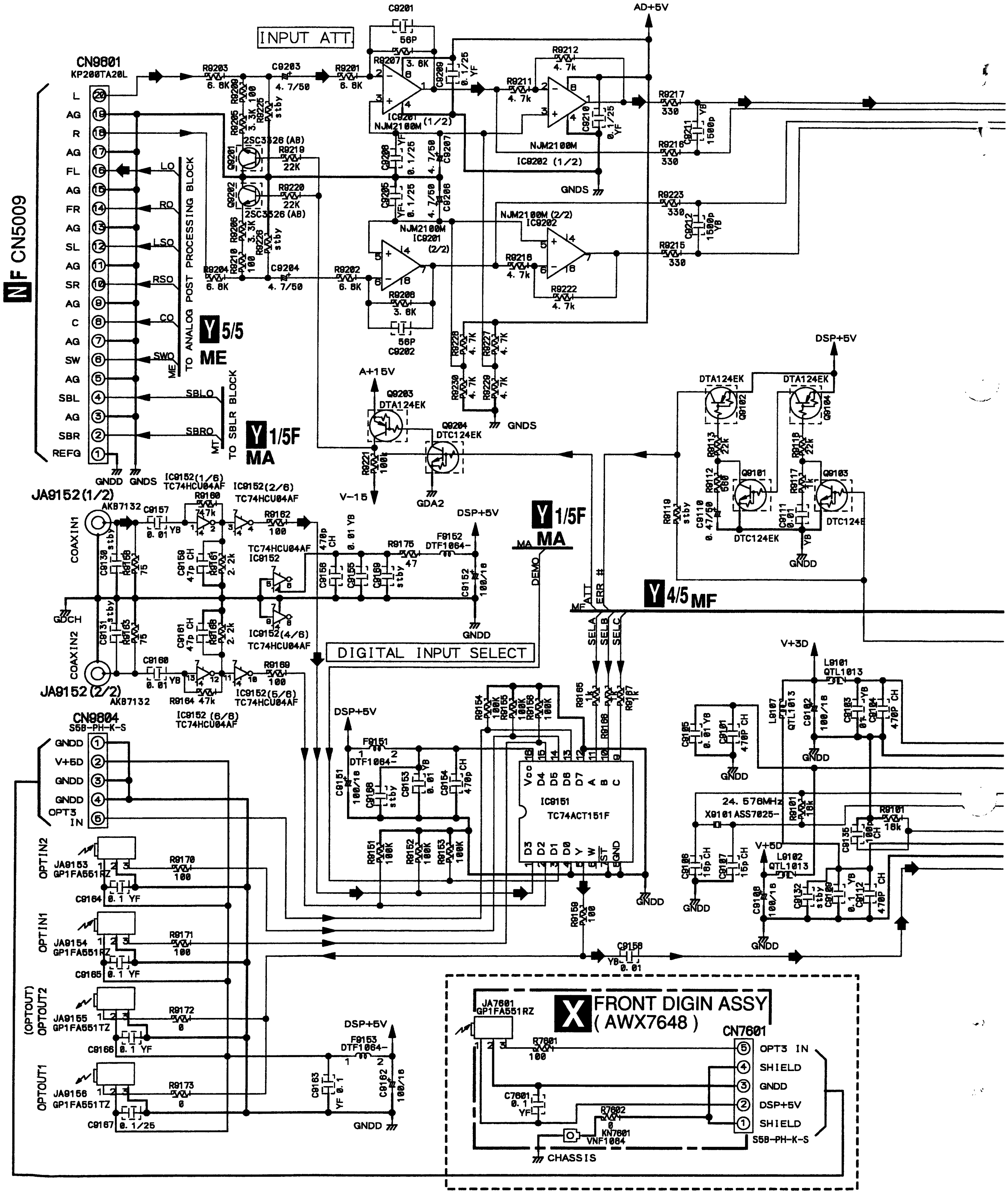
Unit: p:pF or µF unless otherwise noted.
Ratings: Capacity (µF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
NP. . . . . CEANP
. . . . . CEJA
WA. . . . . CEWA

(indicated "*" mark parts are not used or used.)
(indicated "stby" mark parts are stand-by cells.)

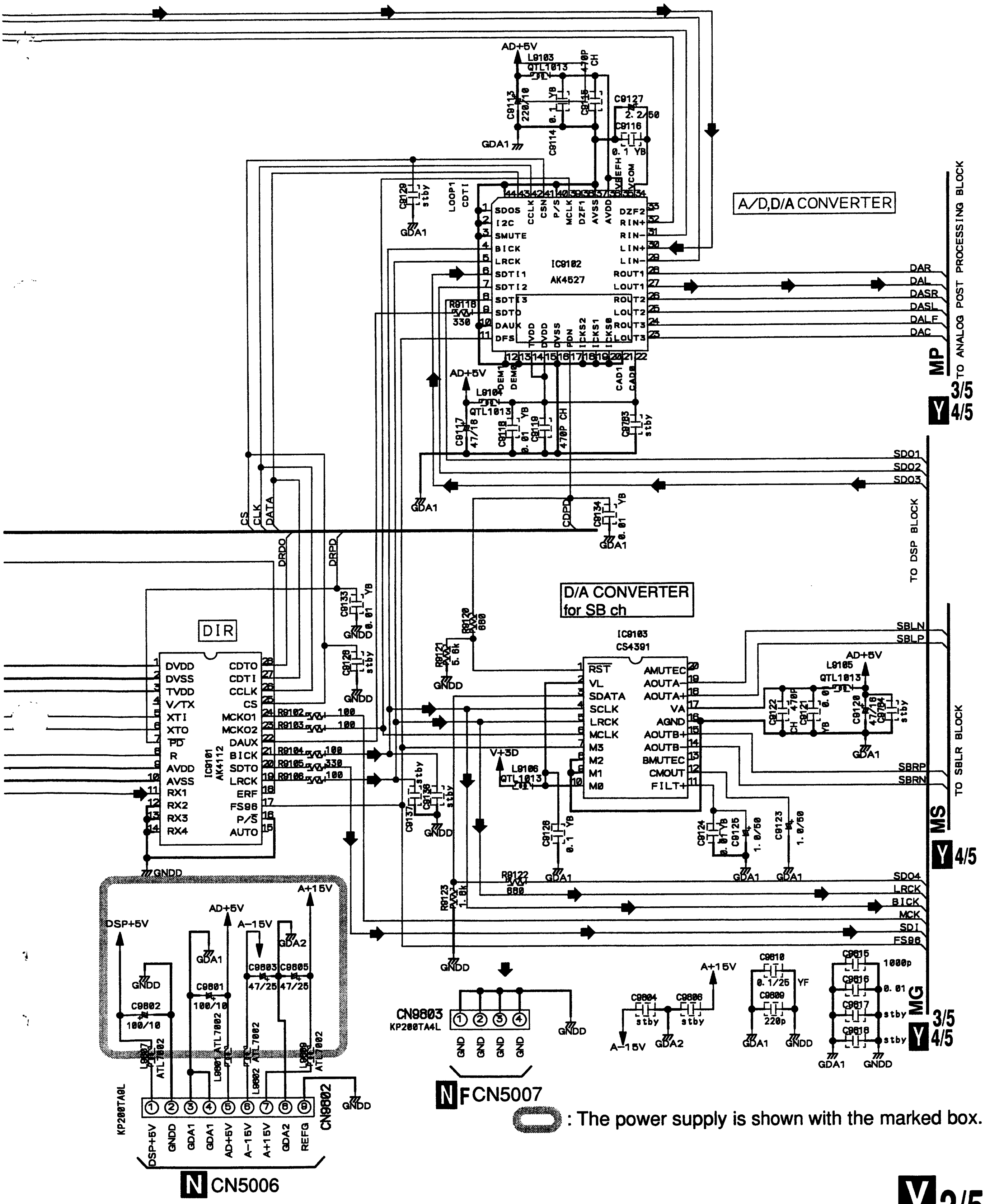

A+15V
DSP+5V
L9001
ATL7002
C9016 47/25
GDDM
D9002
1SS355
R9026 3.3k
R9018 10k
R9020 2k
C9012 0.1/25 YF
C9013 0.1/25 YF
R9023 22
Q9005 2SC3082K N/P
Q9006 2SC3082K N/P
C9014 0.01 YB
R9025 1k
Q9007 2PB709A Q/R
C9015 0.1/25 YF
C9009 0.1/25 YF
C9011 0.1/25 YF
R9019 5.1k
R9021 1k
C9018 0.1/25 YF
R9029 560
R9015 2k
C9010 0.1/25 YF
R9062 3.9k
R9024 3.3k
GNDD
C9096 10/16
C9095 220p CH
C9020 0.01
R9016 2k
R9017 1.5k
R9022 1k
Q9004 2SC3082K N/P
GDDM
GNDD
DSP+5V
C9052 0.1/25 YF
R9055 120
C9053 4.7/25 NP
R9053 10k
R9056 68k
R9051 39k
R9052 24k
C9051 0.1/25 YF
R9054 10k
IC9041(2/2) NJM4558MD
A+15V
C9055 0.1/25 YF
R9058 47k
R9039 270k
R9059 47k
R9057 47k
GNDD
C9057 27p CH
X9001 ASS7009 18.432MHz
C9056 0.01 YB
D9001 KV1651
C9054 0.01 YB
GNDD
DEMODULATOR BLOCK
R9096 0
R9095 0
GDA2
GDDM
Y 2/5F MA
DEMO
R9074 220
VCXO
R9061 470
C9070 YB 0.01
C9076 470p CH
C9073 0.1/25 YF
C9084 470p CH
AVDD
GND VDD MUT1 C1F0 C1F1 C2F0 C2F1 T18 T17 T16 DAOUT DASYC VLDY T15 MUTC PDDIS T14 PDO TDO TRP TCK TLDB T13 T12 VOUT VIN T11 GND VDD DB0
CPIN CMIN AGND TM4 VDD DIN DOUT DOUTB CBM GND WINGT SYST0 SYST1 ADST0 ADST1 TM5 BUNRI AGND
DB1 DB2 DB3 DB4 DB5 DB6 DB7 A10 OEB A11 GND A9 A8 A13 WEB A14 A12 VDD GND A7
IC9071 PM4007
RF DEMODULATOR
GND VDD RESET OSCON DATA MCK MLTB IDST IDCK IDO TM0 ECCK DEN DRY MSYC TM1 A0 A1 A2 A3 A4 A5 TM2 TM3 XOUT XIN XEXT GND VDD A8
C9075 0.1/25 YF
C9082 470p CH
C9072 0.1/25 YF
C9083 470p CH
C9074 0.1/25 YF
A0 A1 A2 A3 A4 A5 A6
C9088 C9089 stby
GNDD
IMD
IC9091 LH52256CN-70LL-TBB
GNDD
D1 D3 D5
I/O4 I/O5 I/O6 I/O7 I/O8 CS A10 OE A11 A9 A8 A13 WE VCC
VSS I/O3 I/O2 I/O1 A0 A1 A2 A3 A4 A5 A6 A7 A12 A14
DSP+5V
L9091 QTL1013
C9091 47/16
C9092 0.1/25 YF
C9093 470p CH
GNDD
MC
A0 A1 A2 A3 A4 A5 A6
A B C D

3.12 DSP ASSY (2/5)


A
B
C
D
INPUT ATT
C9201
56P
AD+5V
CN9801
KP200TA20L
L
AG
R
FL
FR
SL
SR
C
SW
SBL
SBR
REFG
N F CN5009
LO
RO
LSO
RSO
CO
SWO
ME
TO ANALOG POST PROCESSING BLOCK
Y 5/5 ME
SBLO
SBRO
MT
TO SBLR BLOCK
Y 1/5F MA
R9203 6.8K
C9203 4.7/50
R9201 6.8K
R9207 3.6K
C9208 0.1/25 YF
IC9201 NJM2100M (1/2)
R9211 4.7k
R9212 4.7k
NJM2100M
IC9202 (1/2)
C9210 0.1/25 YF
R9217 330
C9211 1500p YB
R9216 330
GNDS
Q9201 2SC3526(AB)
Q9202 2SC3526(AB)
R9219 22K
R9220 22K
R9205 3.3K
R9209 100
R9225 stby
R9206 3.3K
R9210 100
R9226 stby
C9205 0.1/25 YF
C9206 4.7/50
C9207 4.7/50
C9208 0.1/25
NJM2100M (2/2)
IC9202
R9223 330
C9212 1500p YB
R9215 330
NJM2100M IC9201 (2/2)
R9204 6.8K
C9204 4.7/50
R9202 6.8K
R9208 3.6K
C9202 56P
R9218 4.7k
R9222 4.7k
R9228 4.7K
R9227 4.7K
R9230 4.7K
R9229 4.7K
A+15V
Q9203 DTA124EK
Q9204 DTC124EK
R9221 100k
V-15
GDA2
DSP+5V
DTA124EK Q9102
DTA124EK Q9104
R9113 22k
R9118 22k
R9112 560
R9117 1k
Q9101 DTC124EK
Q9103 DTC124E
R9119 stby
C9110 0.47/50
C9111 0.01 YB
GNDD
GNDD GNDS
IC9152(1/6) TC74HCU04AF
IC9152(2/6) TC74HCU04AF
JA9152(1/2) AKB7132
COAXIN1
C9157 0.01 YB
R9160 47k
R9162 100
C9130 stby
R9158 75
C9159 47p CH
R9161 2.2k
C9158 470p CH
0.01 YB
TC74HCU04AF IC9152
R9175 47
F9152 DTF1064
C9156
C9155
C9169 stby
C9152 100/16
GDCH
Y 1/5F MA
MA
DEMO
ATT
ERR #
Y 4/5 MF
MF
C9131 stby
R9163 75
C9161 47p CH
R9168 2.2k
IC9152(4/6) TC74HCU04AF
COAXIN2
C9160 0.01 YB
R9164 47k
IC9152 (6/6) TC74HCU04AF
R9169 100
IC9152(5/6) TC74HCU04AF
JA9152(2/2) AKB7132
DIGITAL INPUT SELECT
SELA
SELB
SELC
R9154 100K
R9155 100K
R9156 100K
R9157 100K
R9165 1k
R9166 1k
R9167 1k
F9151 DTF1064
C9151 100/16
C9166 stby
C9153 0.01 YB
C9154 470p CH
IC9151 TC74ACT151F
Vcc D4 D5 D6 D7 A B C
D3 D2 D1 D0 Y W ST GND
R9151 100K
R9152 100K
R9153 100K
R9159 100
C9158 YB 0.01
V+3D
L9101 QTL1013
L9107 QTL1013
C9102 100/16
C9103 0.1 YB
C9104 470P CH
C9105 0.01 YB
C9101 470P CH
24.576MHz
X9101 ASS7025
R9101 18k
R9101 18k
C9135 100 CH
C9106 15p CH
C9107 15p CH
V+5D
L9102 QTL1013
C9108 100/16
C9132 stby
C9109 0.1 YB
C9112 470P CH
CN9804 S5B-PH-K-S
GNDD
V+5D
GNDD
GNDD
OPT3 IN
OPTIN2
JA9153 GP1FA551RZ
R9170 100
C9164 0.1 YF
OPTIN1
JA9154 GP1FA551RZ
R9171 100
C9165 0.1 YF
(OPTOUT) OPTOUT2
JA9155 GP1FA551TZ
R9172 0
C9166 0.1 YF
OPTOUT1
JA9156 GP1FA551TZ
R9173 0
C9167 0.1/25
DSP+5V
F9153 DTF1064
C9163 0.1 YF
C9162 100/16
GNDD
X FRONT DIGIN ASSY (AWX7648)
JA7601 GP1FA551RZ
R7601 100
C7601 0.1 YF
R7602 0
KN7601 VNF1064
CHASSIS
CN7601
OPT3 IN
SHIELD
GNDD
DSP+5V
SHIELD
S5B-PH-K-S

Y 2/5 F DSP ASSY (AWX7595)

➡: AUDIO SIGNAL ROUTE


A/D,D/A CONVERTER
IC9102
AK4527
AD+5V
L9103
QTL1013
C9113 220/10
C9114 0.1 YB
C9115 470P CH
C9127 2.2/50
C9116 0.1 YB
GDA1
C9129 stby
SDOS
I2C
SMUTE
BICK
LRCK
SDTI1
SDTI2
SDTI3
SDTO
DAUX
DFS
CCLK
CSN
P/S
MCLK
DZF1
AVSS
AVDD
VREFH
VCOM
DZF2
RIN+
RIN-
LIN+
LIN-
ROUT1
LOUT1
ROUT2
LOUT2
ROUT3
LOUT3
TVDD
DVDD
DVSS
PDN
ICKS2
ICKS1
ICKS0
CAD1
CAD0
DEM1
DEM0
LOOP1
CDTI
R9110 330
L9104 QTL1013
C9117 47/16
C9118 0.01 YB
C9119 470P CH
C9785 stby
DAR
DAL
DASR
DASL
DALF
DAC
TO ANALOG POST PROCESSING BLOCK
MP
3/5
Y 4/5
SDO1
SDO2
SDO3
TO DSP BLOCK
CS
CLK
DATA
CDPD
C9134 0.01 YB
DRDO
DRPD
C9133 0.01 YB
GNDD
DIR
IC9101
AK4112
DVDD
DVSS
TVDD
V/TX
XTI
XTO
PD
R
AVDD
AVSS
RX1
RX2
RX3
RX4
CDTO
CDTI
CCLK
CS
MCKO1
MCKO2
DAUX
BICK
SDTO
LRCK
ERF
FS96
P/S
AUTO
C9128 stby
R9102 100
R9103 100
R9104 100
R9105 330
R9106 100
C9137 stby
C9138 stby
D/A CONVERTER
for SB ch
IC9103
CS4391
RST
VL
SDATA
SCLK
LRCK
MCLK
M3
M2
M1
M0
AMUTEC
AOUTA-
AOUTA+
VA
AGND
AOUTB+
AOUTB-
BMUTEC
CMOUT
FILT+
R9120 680
R9121 5.6k
V+3D
L9106 QTL1013
C9126 0.1 YB
C9124 0.01 YB
C9125 1.0/50
C9123 1.0/50
SBLN
SBLP
SBRP
SBRN
TO SBLR BLOCK
MS
Y 4/5
L9105 QTL1013
C9122 470P CH
C9121 0.01 YB
C9120 47/16
C9784 stby
R9122 680
R9123 1.8k
SDO4
LRCK
BICK
MCK
SDI
FS96
GNDD
DSP+5V
AD+5V
A-15V
A+15V
GDA1
GDA2
C9801 100/10
C9802 100/10
C9803 47/25
C9805 47/25
L9807 ATL7002
L9801 ATL7002
L9802 ATL7002
L9809 ATL7002
KP200TA9L
CN9802
DSP+5V
GNDD
GDA1
GDA1
AD+5V
A-15V
A+15V
GDA2
REFG
N CN5006
CN9803
KP200TA4L
GND
GND
GND
GND
N F CN5007
C9804 stby
C9806 stby
C9810 0.1/25 YF
C9809 220p
C9815 1000p
C9816 0.01
C9817 stby
C9818 stby
MG
3/5
Y 4/5

: The power supply is shown with the marked box.

4. REMOTE CONTROL UNIT [AXD7273]

4.1 CONTRAST OF MISCELLANEOUS PARTS

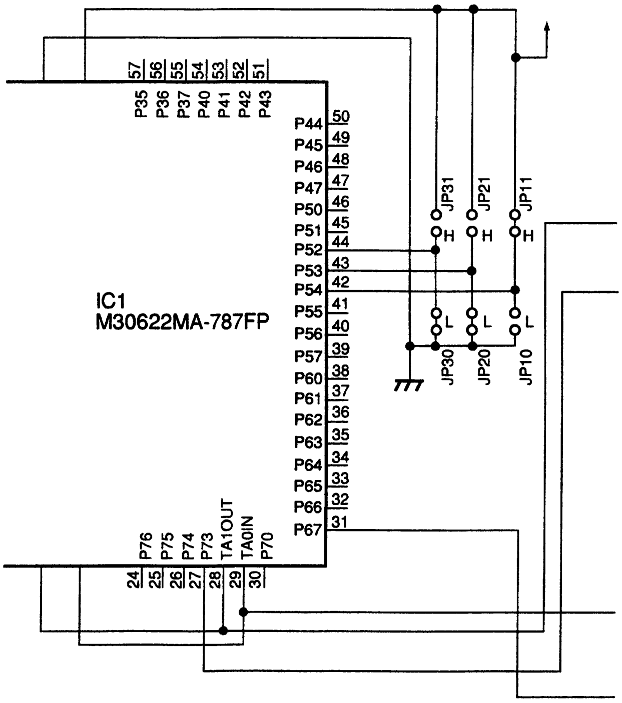
NOTES :
- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screw adjacent to ▼ mark on the product are used for disassembly.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*

■ CONTRAST TABLE

AXD7273 and AXD7266 are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			AXD7266	AXD7273	
P100-3		Rubber Sheet	AZA7397	AZA7402	
P100-15		Case A Assy	AZA7864	AZA7863	

■ REMOTE PCB MODEL SWITCH



57 56 55 54 53 52 51
P35 P36 P37 P40 P41 P42 P43
P44 50
P45 49
P46 48
P47 47
P50 46
P51 45
P52 44
P53 43
P54 42
P55 41
P56 40
P57 39
P60 38
P61 37
P62 36
P63 35
P64 34
P65 33
P66 32
P67 31
IC1
M30622MA-787FP
P76 P75 P74 P73 TA1OUT TA0IN P70
24 25 26 27 28 29 30
JP31
JP21
JP11
H
H
H
L
L
L
JP30
JP20
JP10

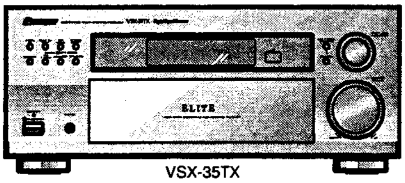
MODEL SWITCH

Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	–	O	–	O	–	O
AXD7258, AXD7279	–	O	–	O	O	–
AXD7259	–	O	O	–	–	O
AXD7266	–	O	O	–	O	–
AXD7273	O	–	–	O	–	O
AXD7275	O	–	–	O	O	–

Service Manual

Pioneer

PION -05864


VSX-35TX

ORDER NO.
RRV2351

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-35TX

VSX-33TX

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	VSX-35TX	VSX-33TX		
KUXJI/CA	○		AC120V	
KUXJI/CA		○	AC120V	

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T-ZZR AUG. 2000

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols ⊟ (fast operating fuse) and/or ⊠ (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible ⊟ (fusible de type rapide) et/ou ⊠ (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

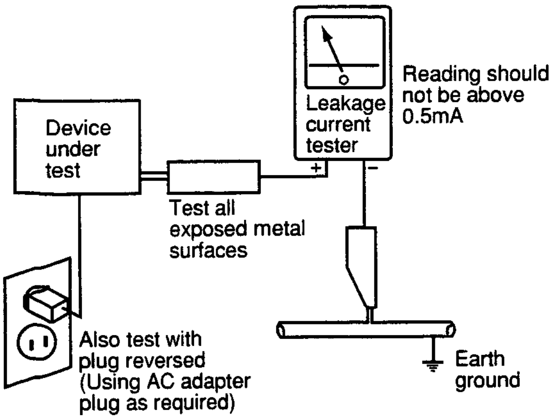
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

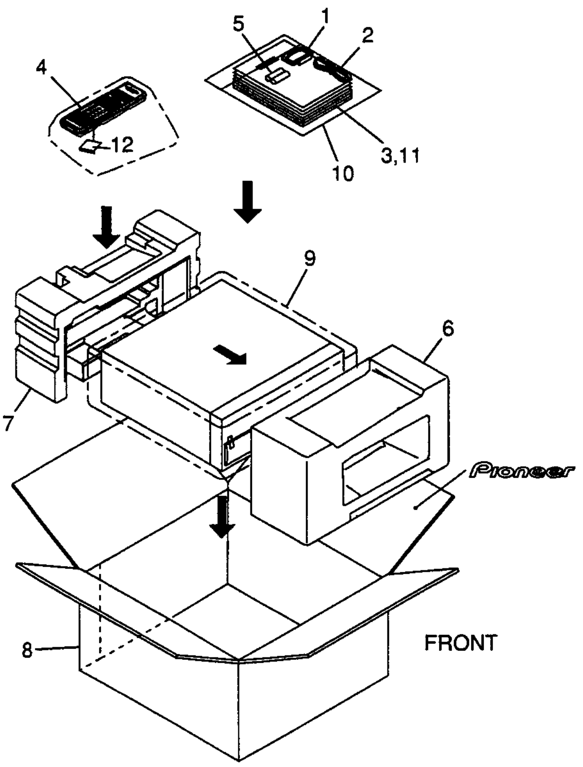
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

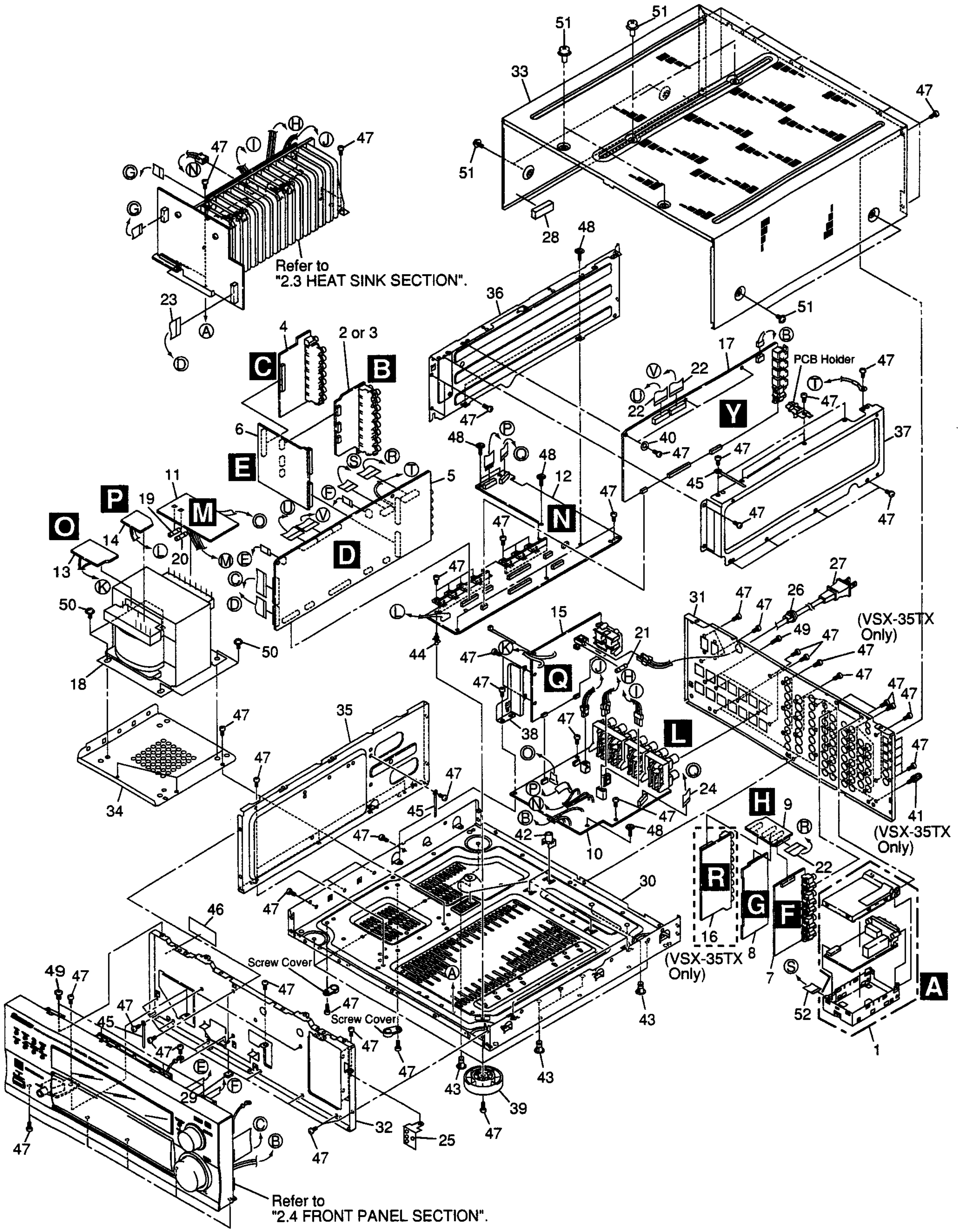
Mark	No.	Description	Part No.
	1	AM Loop Antenna	ATB7009
	2	FM Wire Antenna	ADH7004
	3	Operating Instructions (English)	See Contrast table (2)
	4	Remote Control Unit	See Contrast table (2)
NSP	5	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	6	Front Pad 35	AHA7287
	7	Rear Pad 35	AHA7288
	8	Packing Case	See Contrast table (2)
	9	Packing Sheet	AHG7010
NSP	10	Polyethylene Bag (230 × 340 × 0.03)	Z21-038
NSP	11	Warranty Card	ARY7007
	12	Battery Cover	See Contrast table (2)

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	3	Operating Instructions (English)	ARB7222	ARB7223	
	4	Remote Control Unit (35TX)	AXD7266	Not used	
	4	Remote Control Unit (33TX)	Not used	AXD7267	
	8	Packing Case 35TX	AHD7860	Not used	
	8	Packing Case 33TX	Not used	AHD7861	
	12	Battery Cover	AZN7841	AZN7826	

2.2 EXTERIOR SECTION


Refer to
"2.3 HEAT SINK SECTION".
Refer to
"2.4 FRONT PANEL SECTION".
PCB Holder
(VSX-35TX Only)
(VSX-35TX Only)
(VSX-35TX Only)
Screw Cover
Screw Cover
2 or 3
A
B
C
D
E
F
G
H
L
M
N
O
P
Q
R
Y
1
4
5
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(1) EXTERIOR PARTS LIST

Mark	No.	Description	Part No.
	1	FM/AM TUNER Module	AXQ7231
	2	EX I/O Assy	See Contrast table (2)
	3	5.1CH I/O Assy	See Contrast table (2)
	4	INPUT Assy	See Contrast table (2)
	5	MAIN CONTROL Assy	See Contrast table (2)
	6	A-CONNECTION Assy	See Contrast table (2)
	7	COMPOSITE Assy	See Contrast table (2)
	8	S VIDEO Assy	See Contrast table (2)
	9	V-CONNECTION Assy	See Contrast table (2)
	10	SP/PS Assy	See Contrast table (2)
	11	TRANS 2-1 Assy	AWX7572
	12	REGULATOR Assy	AWX7562
	13	TRANS 2-2 Assy	See Contrast table (2)
NSP	14	TRANS 1 Assy	AWX7564
	15	PRIMARY Assy	AWX7563
	16	COMPONENT Assy	See Contrast table (2)
	17	DSP Assy	See Contrast table (2)
⚠	18	Power Transformer (T1)	ATS7284
⚠	19	Fuse (FU4 : 2.5A)	REK1112
⚠	20	Fuse (FU5 : 2.5A)	REK1112
⚠	21	Fuse (FU1 : 10A)	VEK1029
	22	20P Flexible Cable/60V	ADD7241
	23	22P Flexible Cable/60V	ADD7243
	24	14P Flexible Cable/60V	ADD7244
	25	SE Angle 35	ANG7335

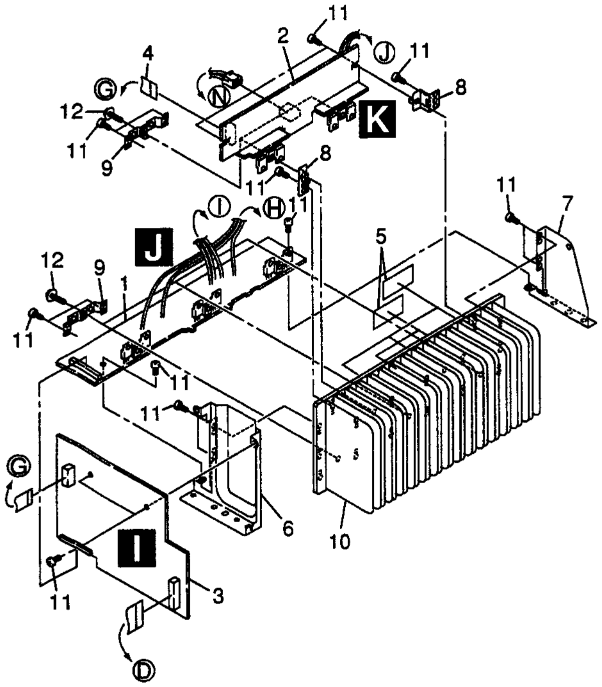
Mark	No.	Description	Part No.
	26	Cord Stopper	CM-22C
⚠	27	Power Cord	VDG1075
	28	Spacer 35 (3 × 10 × 40)	AEB7210
	29	Cushion 8 × 8	AED7046
NSP	30	Under Base	ANA7113
	31	Rear Panel	See Contrast table (2)
NSP	32	Panel Stay 35	AND7035
	33	Bonnet 35	AZN7835
	34	Trans Frame 35	ANG7292
	35	Trans Shield 35	ANG7293
	36	DSP Shield 35 A	ANG7295
	37	DSP Shield 35 B	ANG7296
	38	Primary Angle 35	ANG7301
	39	Insulator	PNW2766
	40	Fiber Washer	VEC1254
	41	Earth Terminal	See Contrast table (2)
	42	PCB Mold	AMR2534
	43	Card Spacer	DNK2769
	44	Locking Card Spacer	PNW2917
	45	Cord Clamper	RNH-184
	46	65 Label	ARW7050
	47	Screw	BBZ30P080FZK
	48	Screw	IBZ30P150FCC
	49	Screw	IBZ30P100FCC
	50	Screw	ABA7066
	51	Screw	FBT40P080FZK
	52	13P Flexible Cable/60V	ADD7242

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	2	EX I/O Assy	AWX7568	Not used	
	3	5.1CH I/O Assy	Not used	AWX7613	
	4	INPUT Assy	AWX7573	AWX7585	
	5	MAIN CONTROL Assy	AWX7560	AWX7610	
	6	A-CONNECTION Assy	AWX7566	AWX7619	
	7	COMPOSITE Assy	AWX7581	AWX7617	
	8	S VIDEO Assy	AWX7580	AWX7616	
	9	V-CONNECTION Assy	AWX7567	AWX7717	
	10	SP/PS Assy	AWX7571	AWX7721	
	13	TRANS 2-2 Assy	AWX7565	AWX7720	
	16	COMPONENT Assy	AWX7582	Not used	
	17	DSP Assy	AWX7561	AWX7611	
	31	Rear Panel 35	ANC7910	Not used	
	31	Rear Panel 33	Not used	ANC7911	
	41	Earth Terminal	AKE-031	Not used	

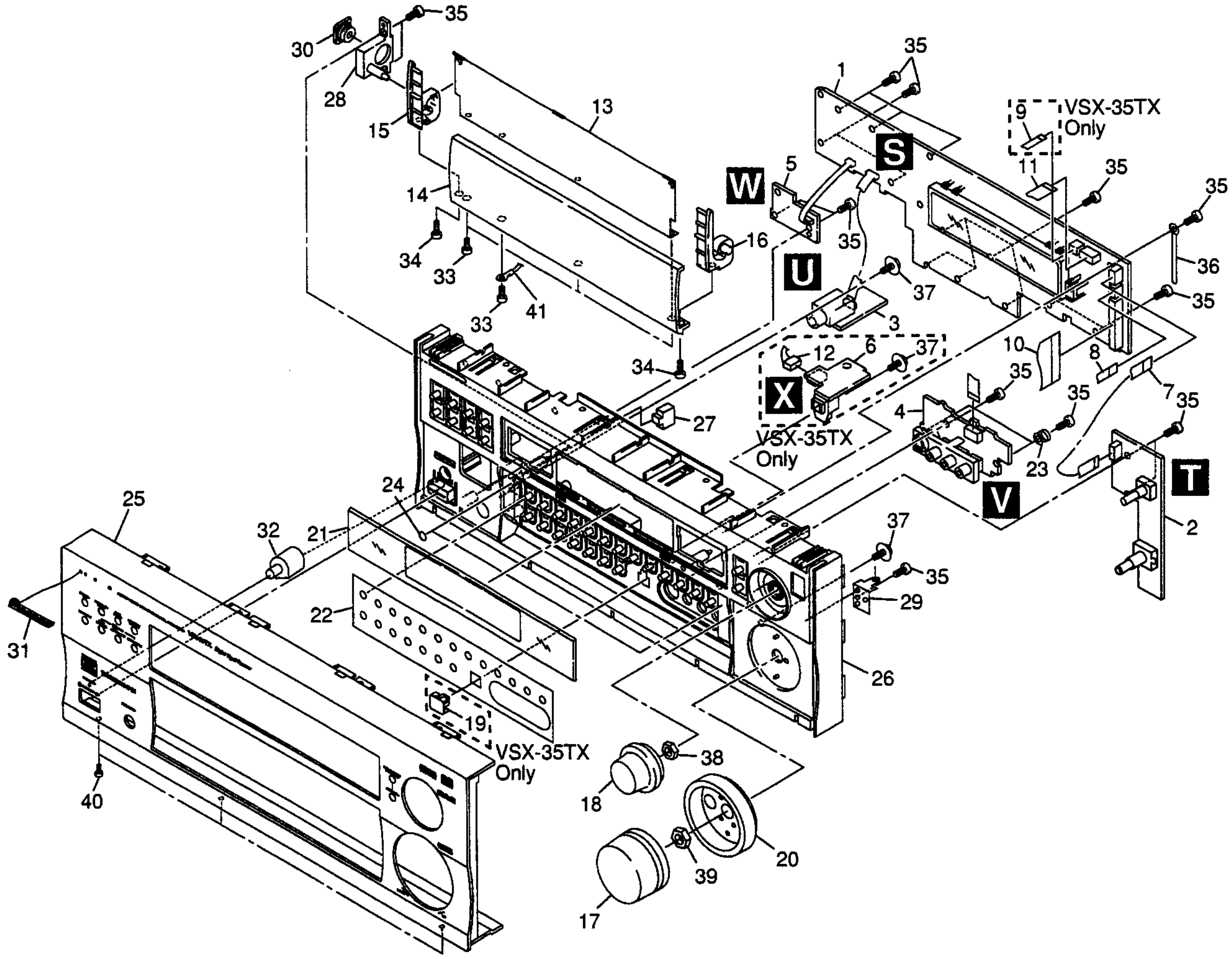
2.3 HEAT SINK SECTION


11
2
Ⓙ
11
4
Ⓖ
Ⓝ
8
12
K
11
9
8
11
Ⓘ
Ⓗ
11
11
7
J
5
12
9
1
11
11
11
Ⓖ
6
10
I
11
3
Ⓓ

● HEAT SINK SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT AMP Assy	AWX7569
	2	REAR AMP Assy	AWX7570
	3	V-AMP Assy	AWX7578
	4	13P Flexible Cable/60V	ADD7242
	5	Mica Sheet 35	AEE7035
	6	H.S Angle 35 F	ANG7297
	7	H.S Angle 35 R	ANG7298
	8	PCB Angle 35	ANG7299
	9	FET Angle 35	ANG7300
NSP	10	Heat Sink 35	ANH7126
	11	Screw	BBZ30P080FZK
	12	Screw	IBZ30P150FCC

2.4 FRONT PANEL SECTION


35
30
28
15
13
1
35
9
VSX-35TX Only
S
W
5
11
35
35
14
16
35
36
34
33
U
37
35
41
33
3
34
12
6
37
10
8
27
X
VSX-35TX Only
35
35
7
35
4
23
V
T
2
25
24
32
21
37
35
29
22
31
26
19
VSX-35TX Only
38
18
40
20
39
17

(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table (2)
	2	VOLUME-CONT Assy	AWX7577
	3	HEADPHONE Assy	AWX7602
	4	FRONT AV Assy	AWX7579
	5	STAND BY Assy	AWX7576
	6	FRONT DIGIN Assy	See Contrast table (2)
	7	7P Flexible Cable/60V	ADD7236
	8	5P Flexible Cable/60V	ADD7237
	9	4P Flexible Cable/60V	See Contrast table (2)
	10	32P Flexible Cable/60V	ADD7239
	11	8P Flexible Cable/60V	ADD7240
	12	5P Shield Wire with Housing	See Contrast table (2)
	13	Door Stay 35	AAH7063
	14	Door 35	AMB7692
	15	Door Hinge 35 L	AMR7291
	16	Door Hinge 35 R	AMR7293
	17	Volume Knob 26	AAB7193
	18	Rotary Knob 35	AAB7226
	19	Digital Cap 35	See Contrast table (2)
	20	Volume Ring 26	AAK7623

Mark	No.	Description	Part No.
	21	Window	See Contrast table (2)
	22	Door Sheet	See Contrast table (2)
NSP	23	Earth Spring 35	ABH7193
	24	Cushion Circle 6B	AED7044
	25	Front Panel	See Contrast table (2)
	26	Panel Base 35	AMB7695
	27	Magnet 35	AMF7007
	28	Door Shaft 35	AMR7295
	29	SE Angle 35	ANG7334
	30	Damper Assy (100)	AXA7089
	31	Pioneer Badge	PAM1776
	32	LED Lens	PNW2019
	33	Screw	BBZ26P060FZK
	34	Screw	BPZ26P080FMC
	35	Screw	BPZ30P080FMC
	36	Cord Clamper	RNH-184
	37	Screw	ABA7009
	38	Nut	MK70FUC
	39	Nut	MK90FUC
	40	Screw	BBZ30P080FZK
	41	Earth Lead Wire	ADH7022

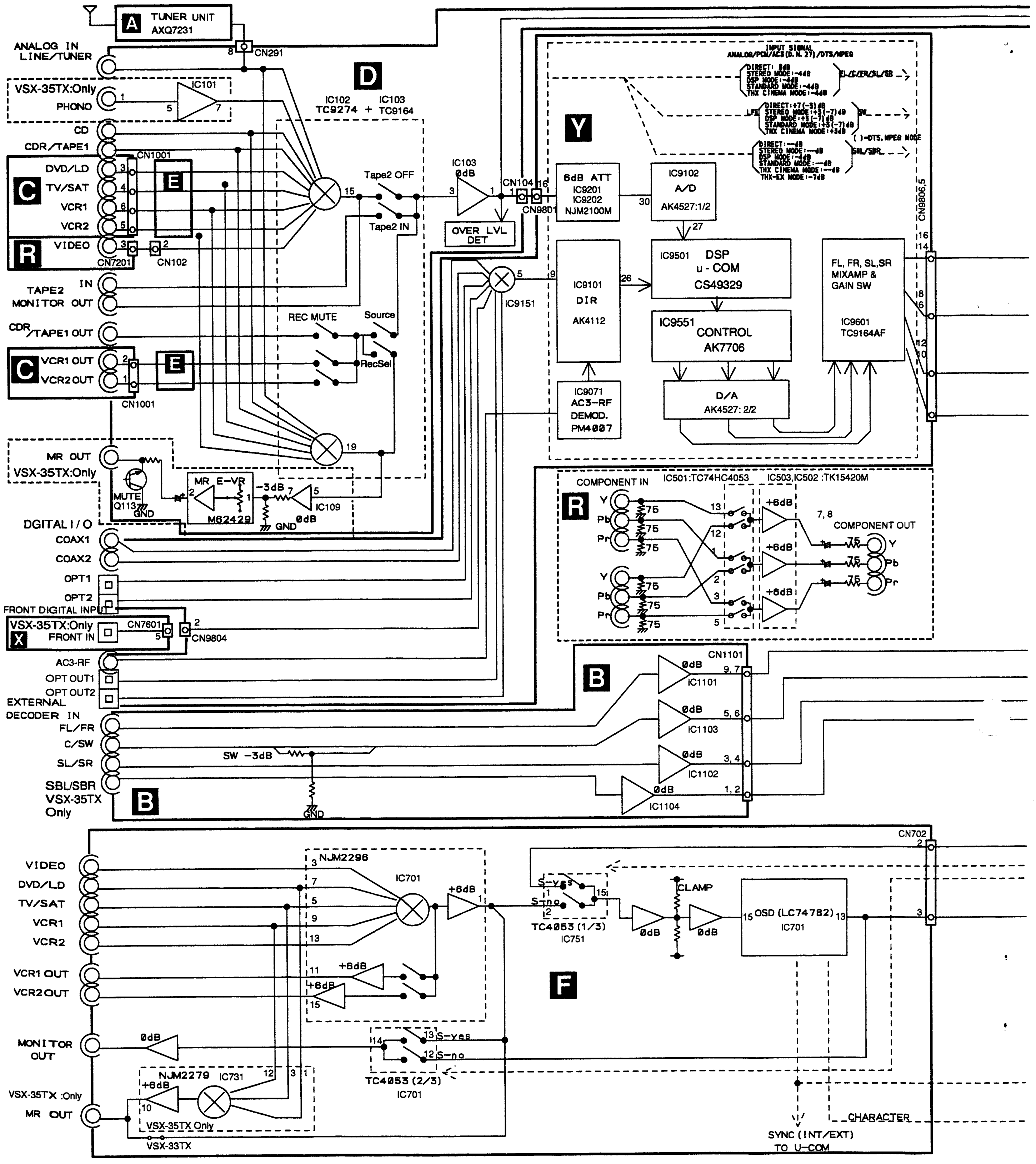
(2) CONTRAST TABLE

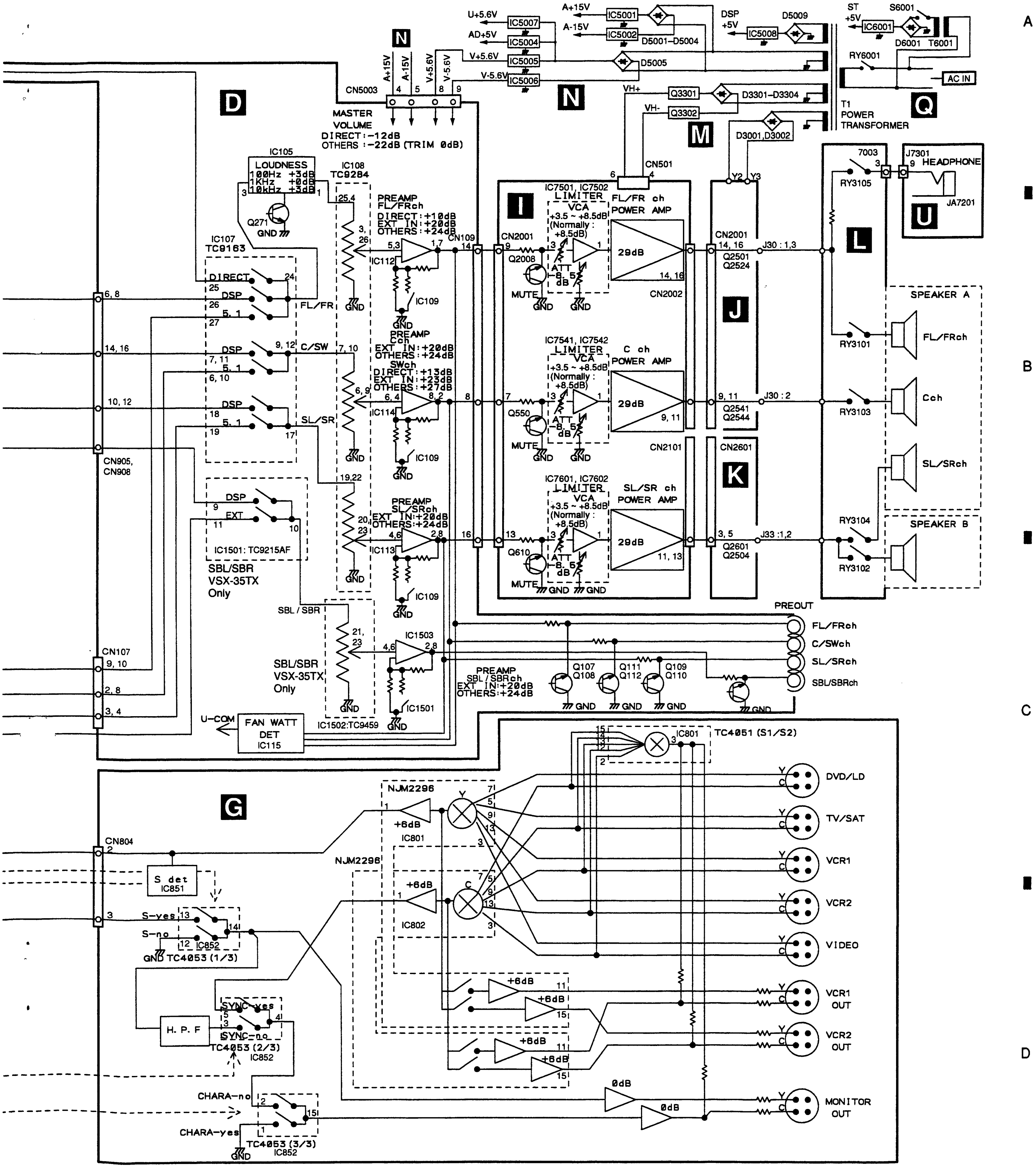
VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	1	DISPLAY Assy	AWX7574	AWX7614	
	6	FRONT DIGIN Assy	AWX7648	Not used	
	9	4P Flexible Cable/60V	ADD7238	Not used	
	12	5P Shield Wire with Housing	ADX7344	Not used	
	19	Digital Cap 35	AAD7576	Not used	
	21	Window 35R	AAK7769	Not used	
	21	Window 33R	Not used	AAK7733	
	22	Door Sheet 35	AAK7783	Not used	
	22	Door Sheet 33	Not used	AAK7775	
	25	Front Panel 35	AMB7691	Not used	
	25	Front Panel 33	Not used	AMB7714	

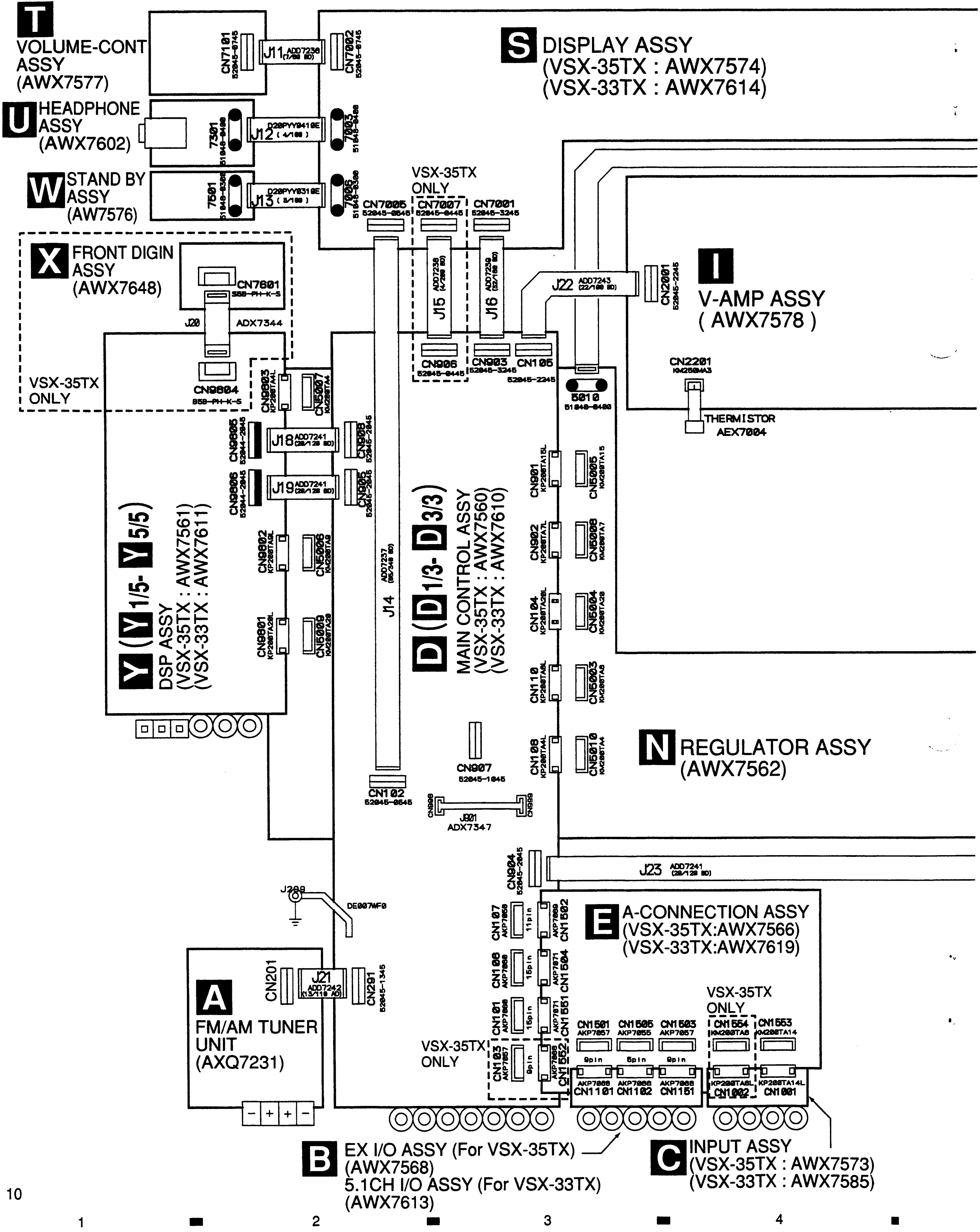
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

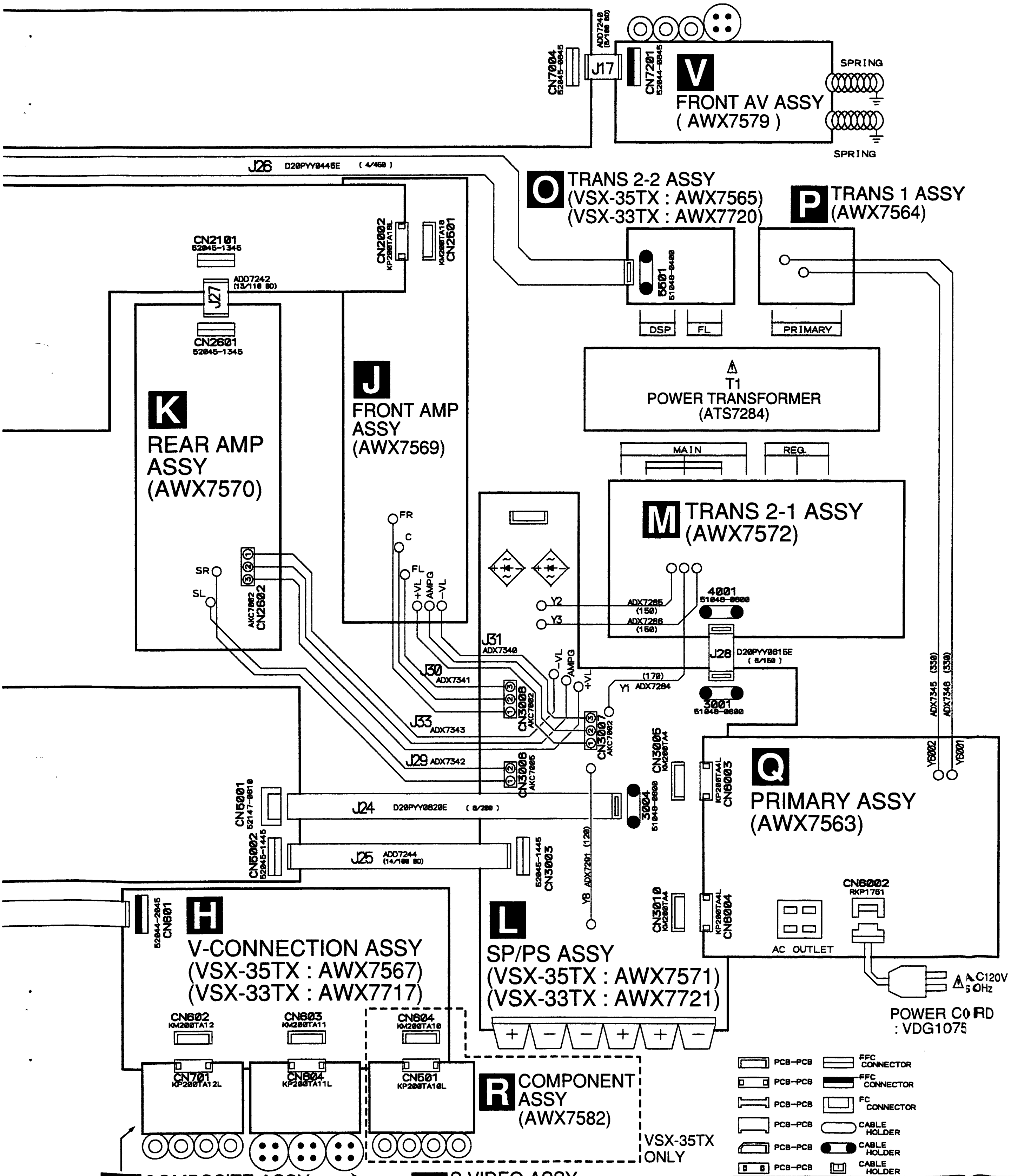

A
TUNER UNIT
AXQ7231
CN291
ANALOG IN
LINE/TUNER
VSX-35TX:Only
PHONO
IC101
CD
CDR/TAPE1
CN1001
DVD/LD
TV/SAT
VCR1
VCR2
VIDEO
C
E
R
CN7201
CN102
D
IC102 IC103
TC9274 + TC9164
Tape2 OFF
Tape2 IN
IC103
0dB
OVER LVL
DET
CN104
CN9801
TAPE2
IN
MONITOR OUT
CDR/TAPE1 OUT
REC MUTE
Source
RecSel
VCR1 OUT
VCR2 OUT
MR OUT
VSX-35TX:Only
MUTE
Q113
GND
MR E-VR
M62429
-3dB
0dB
IC109
IC9151
DGITAL I/O
COAX1
COAX2
OPT1
OPT2
FRONT DIGITAL INPUT
VSX-35TX:Only
FRONT IN
X
CN7601
CN9804
AC3-RF
OPT OUT1
OPT OUT2
EXTERNAL
DECODER IN
FL/FR
C/SW
SL/SR
SBL/SBR
VSX-35TX
Only
SW -3dB
Y
INPUT SIGNAL
ANALOG/PCM/AC3(D.N. 27)/DTS/MPEG
DIRECT: 0dB
STEREO MODE:-4dB
DSP MODE:-4dB
STANDARD MODE:-4dB
THX CINEMA MODE:-4dB
FL/C/FR/SL/SR
LFE
DIRECT:+7(-3)dB
STEREO MODE:+3(-7)dB
DSP MODE:+3(-7)dB
STANDARD MODE:+3(-7)dB
THX CINEMA MODE:+3dB
SW
( )=DTS, MPEG MODE
DIRECT:--dB
STEREO MODE:--dB
DSP MODE:-4dB
STANDARD MODE:--dB
THX CINEMA MODE:--dB
THX-EX MODE:-7dB
SBL/SBR
6dB ATT
IC9201
IC9202
NJM2100M
IC9102
A/D
AK4527:1/2
IC9501 DSP
u-COM
CS49329
IC9101
DIR
AK4112
IC9551
CONTROL
AK7706
D/A
AK4527: 2/2
IC9071
AC3-RF
DEMOD.
PM4007
FL, FR, SL,SR
MIXAMP &
GAIN SW
IC9601
TC9164AF
CN9806,5
COMPONENT IN
IC501:TC74HC4053
IC503,IC502 :TK15420M
+6dB
COMPONENT OUT
Y
Pb
Pr
75
B
CN1101
0dB
IC1101
IC1103
IC1102
IC1104
VIDEO
DVD/LD
TV/SAT
VCR1
VCR2
VCR1 OUT
VCR2 OUT
MONITOR
OUT
VSX-35TX :Only
MR OUT
NJM2296
IC701
+6dB
S-yes
S-no
TC4053 (1/3)
IC751
CLAMP
OSD (LC74782)
IC701
CN702
F
TC4053 (2/3)
IC701
NJM2279 IC731
VSX-35TX Only
VSX-33TX
CHARACTER
SYNC (INT/EXT)
TO U-COM


A
B
C
D
U+5.6V
IC5007
AD+5V
IC5004
V+5.6V
IC5005
V-5.6V
IC5006
A+15V
IC5001
A-15V
IC5002
D5001–D5004
D5005
DSP +5V
IC5008
D5009
ST +5V
IC6001
S6001
D6001 T6001
RY6001
AC IN
T1 POWER TRANSFORMER
VH+
Q3301
D3301–D3304
VH-
Q3302
D3001,D3002
N
A+15V A-15V V+5.6V V-5.6V
CN5003 4 5 8 9
MASTER VOLUME
DIRECT : -12dB
OTHERS : -22dB (TRIM 0dB)
D
N
M
Q
IC105
LOUDNESS
100Hz +3dB
1KHz +0dB
10kHz +3dB
Q271
GND
IC108 TC9284
IC107 TC9163
DIRECT
DSP
5.1
FL/FR
C/SW
SL/SR
PREAMP FL/FRch
DIRECT : +10dB
EXT IN : +20dB
OTHERS : +24dB
IC112
IC109
PREAMP Cch
EXT IN : +20dB
OTHERS : +24dB
SWch
DIRECT : +13dB
EXT IN : +23dB
OTHERS : +27dB
IC114
PREAMP SL/SRch
EXT IN : +20dB
OTHERS : +24dB
IC113
CN109
CN905, CN908
DSP
EXT
IC1501: TC9215AF
SBL/SBR VSX-35TX Only
SBL / SBR
IC1503
IC1502:TC9459
IC1501
PREAMP SBL / SBRch
EXT IN : +20dB
OTHERS : +24dB
CN107
U-COM
FAN WATT DET IC115
CN501
I
IC7501, IC7502 LIMITER VCA
+3.5 ~ +8.5dB (Normally : +8.5dB)
ATT -8.5dB
FL/FR ch POWER AMP
29dB
CN2001
Q2008
MUTE
CN2002
IC7541, IC7542 LIMITER VCA
C ch POWER AMP
Q550
CN2101
IC7601, IC7602 LIMITER VCA
SL/SR ch POWER AMP
Q610
J
K
CN2001
Q2501 Q2524
J30 : 1,3
Q2541 Q2544
J30 : 2
CN2601
Q2601 Q2504
J33 : 1,2
L
7003
RY3105
J7301 HEADPHONE
JA7201
U
SPEAKER A
FL/FRch
RY3101
Cch
RY3103
SL/SRch
RY3104
SPEAKER B
RY3102
PREOUT
FL/FRch
C/SWch
SL/SRch
SBL/SBRch
Q107 Q108
Q111 Q112
Q109 Q110
GND
G
IC801
TC4051 (S1/S2)
NJM2296
+6dB
IC801
IC802
DVD/LD
TV/SAT
VCR1
VCR2
VIDEO
VCR1 OUT
VCR2 OUT
MONITOR OUT
0dB
CN804
S det IC851
S-yes
S-no
IC852
TC4053 (1/3)
H. P. F
SYNC-yes
SYNC-no
TC4053 (2/3)
CHARA-no
CHARA-yes
TC4053 (3/3)

3.2 OVERALL WIRING DIAGRAM


T VOLUME-CONT ASSY (AWX7577)
CN7101 52045-0745
J11 ADD7236 (7/80 BD)
CN7002 52045-0745
S DISPLAY ASSY (VSX-35TX : AWX7574) (VSX-33TX : AWX7614)
U HEADPHONE ASSY (AWX7602)
7301 51048-0400
J12 D20PYY0410E (4/100)
7003 51048-0400
W STAND BY ASSY (AW7576)
7501 51048-0300
J13 D20PYY0310E (3/100)
7006 51048-0300
VSX-35TX ONLY
CN7005 52045-0545
CN7007 52045-0445
CN7001 52045-3245
X FRONT DIGIN ASSY (AWX7648)
CN7601 S5B-PH-K-S
J20
ADX7344
J15 ADD7238 (4/200 BD)
J16 ADD7239 (32/100 BD)
J22 ADD7243 (22/100 BD)
CN2001 52045-2245
I V-AMP ASSY (AWX7578)
CN906 52045-0445
CN903 52045-3245
CN105 52045-2245
5010 51048-0400
CN2201 KM250MA3
THERMISTOR AEX7004
VSX-35TX ONLY
CN9804 S5B-PH-K-S
CN9803 KP200TA4L
CN5007 KM200TA4
CN9805 52044-2045
J18 ADD7241 (20/120 BD)
CN908 52045-2045
CN9806 52044-2045
J19 ADD7241 (20/120 BD)
CN905 52045-2045
CN901 KP200TA15L
CN5005 KM200TA15
Y (Y 1/5- Y 5/5) DSP ASSY (VSX-35TX : AWX7561) (VSX-33TX : AWX7611)
CN9802 KP200TA9L
CN5006 KM200TA9
J14 ADD7237 (95/240 BD)
D (D 1/3- D 3/3) MAIN CONTROL ASSY (VSX-35TX : AWX7560) (VSX-33TX : AWX7610)
CN902 KP200TA7L
CN5008 KM200TA7
CN104 KP200TA20L
CN5004 KM200TA20
CN9801 KP200TA20L
CN5009 KM200TA20
CN110 KP200TA5L
CN5003 KM200TA5
CN108 KP200TA4L
CN5010 KM200TA4
N REGULATOR ASSY (AWX7562)
CN907 52045-1045
CN102 52045-0545
CN998
J901 ADX7347
CN999
CN904 52045-2045
J23 ADD7241 (20/120 BD)
J209
DE007WF0
E A-CONNECTION ASSY (VSX-35TX:AWX7566) (VSX-33TX:AWX7619)
CN107 AKP7058
11pin
AKP7069 CN1502
CN106 AKP7058
15pin
AKP7071 CN1504
CN201
J21 ADD7242 (13/110 AD)
CN291 52045-1345
A FM/AM TUNER UNIT (AXQ7231)
CN101 AKP7058
15pin
AKP7071 CN1551
VSX-35TX ONLY
CN1501 AKP7057
CN1505 AKP7055
CN1503 AKP7057
CN1554 KM200TA8
CN1553 KM200TA14
VSX-35TX ONLY
CN103 AKP7057
9pin
AKP7068 CN1552
9pin
5pin
9pin
AKP7068 CN1101
AKP7066 CN1102
AKP7068 CN1151
KP200TA8L CN1002
KP200TA14L CN1001
- + + -
B EX I/O ASSY (For VSX-35TX) (AWX7568) 5.1CH I/O ASSY (For VSX-33TX) (AWX7613)
C INPUT ASSY (VSX-35TX : AWX7573) (VSX-33TX : AWX7585)
1
2
3
4
A
B
C
D

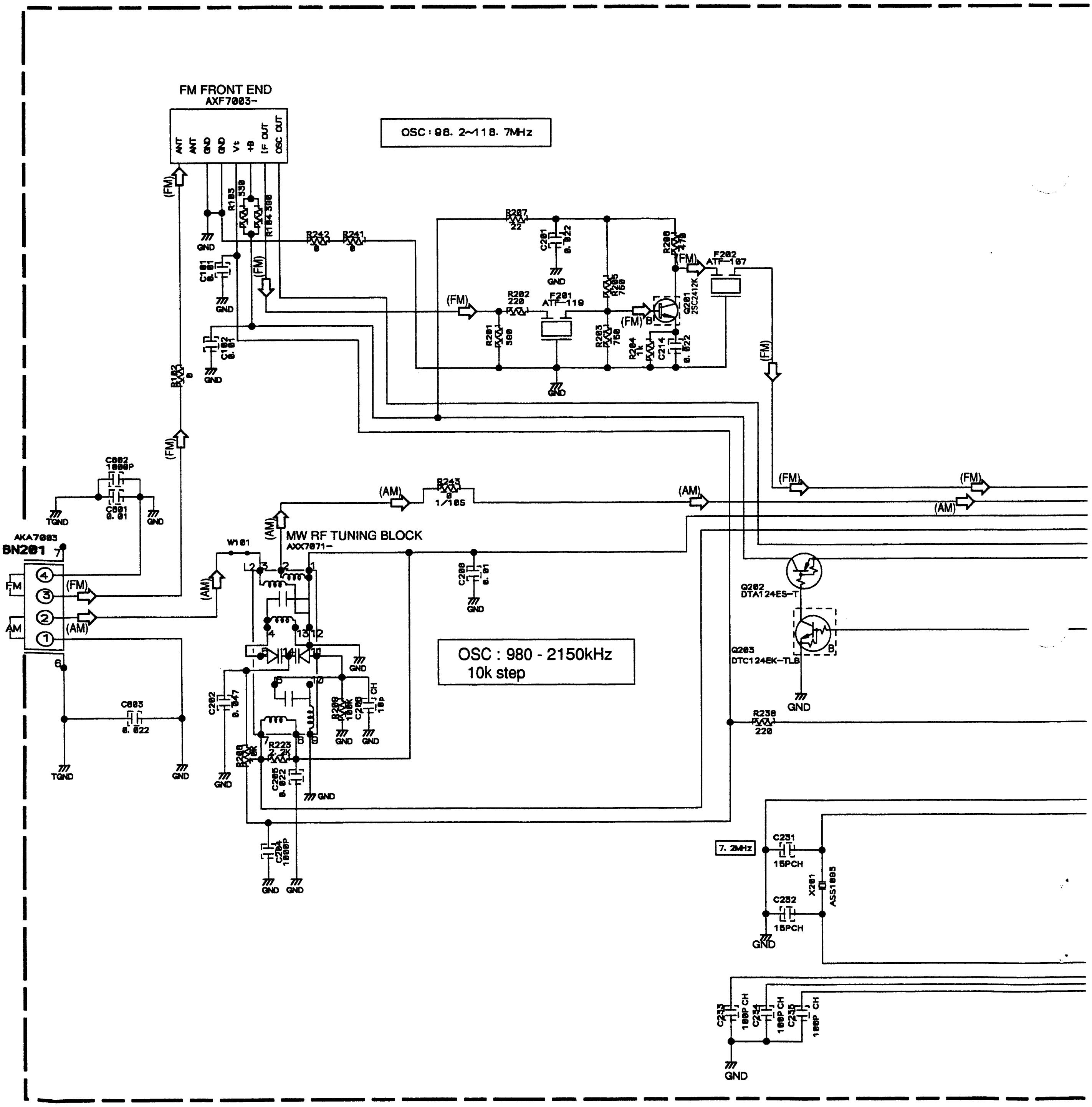
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".


A
B
C
D
V FRONT AV ASSY (AWX7579)
CN7004 52045-0845
J17
ADD7240
CN7201 52044-0845
SPRING
SPRING
J26 D20PYY0445E (4/450)
O TRANS 2-2 ASSY (VSX-35TX : AWX7565) (VSX-33TX : AWX7720)
5501 51048-0400
DSP
FL
P TRANS 1 ASSY (AWX7564)
PRIMARY
T1 POWER TRANSFORMER (ATS7284)
MAIN
REG.
M TRANS 2-1 ASSY (AWX7572)
CN2101 52045-1345
ADD7242 (13/110 80)
J27
CN2601 52045-1345
CN2002 KP200TA18L
CN2501 KM200TA18
K REAR AMP ASSY (AWX7570)
J FRONT AMP ASSY (AWX7569)
SR
SL
AKC7002 CN2602
FR
C
FL
+VL
AMPG
-VL
Y2
Y3
ADX7285 (150)
ADX7286 (150)
4001 51048-0800
J28 D20PYY0815E (8/150)
3001 51048-0800
J31 ADX7340
J30 ADX7341
J33 ADX7343
J29 ADX7342
CN3008 AKC7002
CN3007 AKC7002
CN3006 AKC7005
-VL
AMPG
+VL
Y1 ADX7284 (170)
CN3005 KM200TA4
CN8003 KP200TA4L
Q PRIMARY ASSY (AWX7563)
ADX7345 (330)
ADX7346 (330)
Y6002
Y6001
CN5001 52147-0810
J24 D20PYY0820E (8/200)
3004 51048-0800
CN5002 52045-1445
J25 ADD7244 (14/100 80)
52045-1445 CN3003
Y8 ADX7281 (120)
CN3010 KM200TA4
CN8004 KP200TA4L
CN8002 RKP1751
AC OUTLET
AC120V 60Hz
POWER CORD : VDG1075
52044-2845 CN601
H V-CONNECTION ASSY (VSX-35TX : AWX7567) (VSX-33TX : AWX7717)
L SP/PS ASSY (VSX-35TX : AWX7571) (VSX-33TX : AWX7721)
+ − − + + −
CN602 KM200TA12
CN603 KM200TA11
CN604 KM200TA10
CN701 KP200TA12L
CN804 KP200TA11L
CN501 KP200TA10L
R COMPONENT ASSY (AWX7582)
VSX-35TX ONLY
F COMPOSITE ASSY (VSX-35TX : AWX7581) (VSX-33TX : AWX7617)
G S VIDEO ASSY (VSX-35TX : AWX7580) (VSX-33TX : AWX7616)
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
FFC CONNECTOR
FFC CONNECTOR
FC CONNECTOR
CABLE HOLDER
CABLE HOLDER
CABLE HOLDER

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therfore, when replacing, be sure to use parts of identical designation.

3.3 FM/AM TUNER UNIT

A FM/AM TUNER UNIT (AXQ7231)

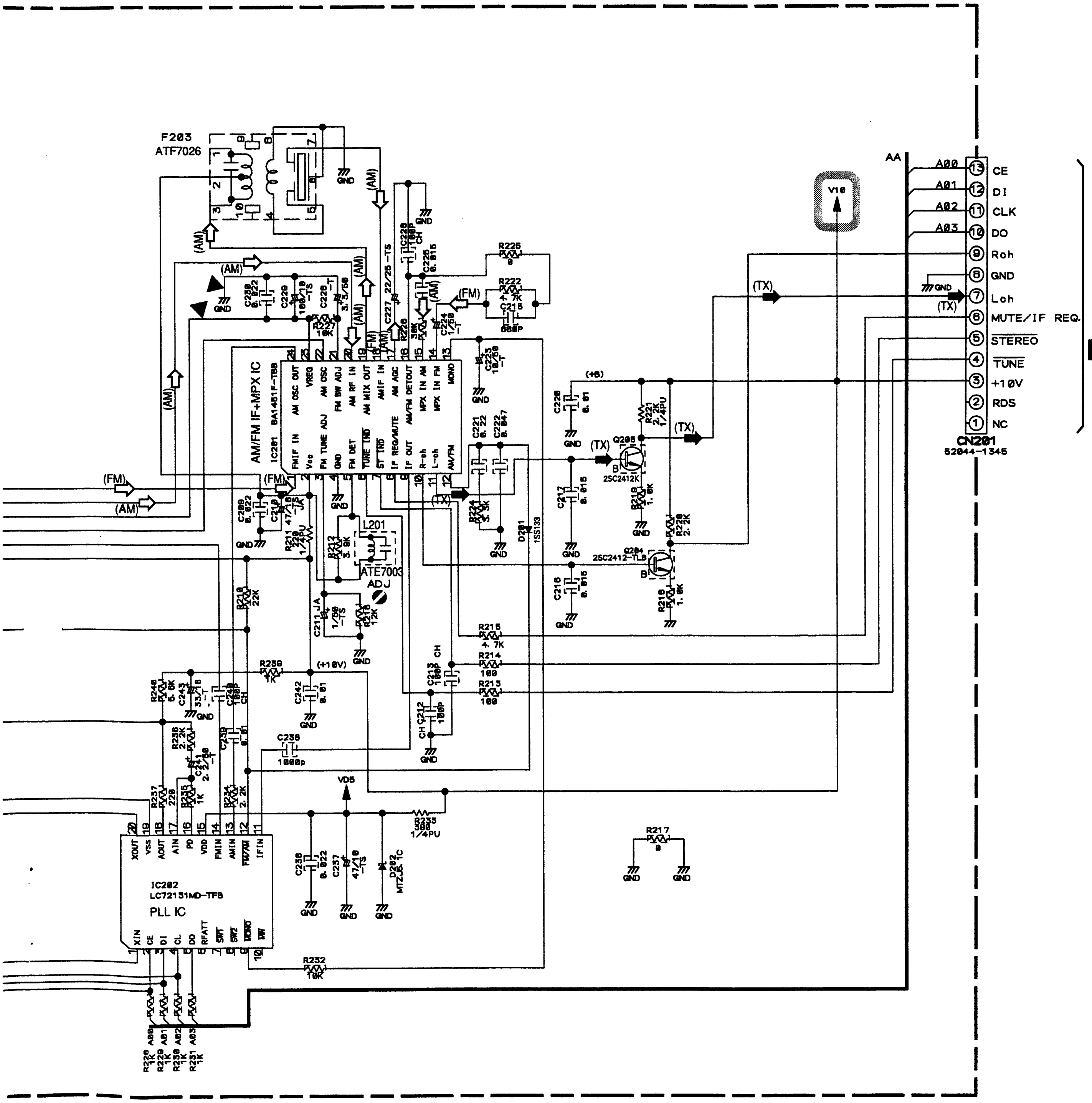

FM FRONT END
AXF7003-
ANT
ANT
GND
GND
Vt
+B
IF OUT
OSC OUT
OSC : 98. 2~118. 7MHz
(FM)
R103
330
R104 390
C101
0. 01
C102
0. 01
GND
R102
0
R242
0
R241
0
R207
22
C201
0. 022
R206
270
F202
ATF-107
R202
220
F201
ATF-119
R201
560
R205
750
R203
750
R204
1k
C214
0. 022
Q201
2SC2412K
(FM)
B
(AM)
R243
0
1/10S
C802
1000P
C801
0. 01
TGND
AKA7003
BN201
7
FM
AM
4
3
2
1
6
C803
0. 022
W101
MW RF TUNING BLOCK
AXX7071-
L2
C200
0. 01
OSC : 980 - 2150kHz
10k step
C202
0. 047
R208
100k
C206
10p
CH
R200
10k
R223
2. 2K
C205
0. 022
C204
1000P
Q202
DTA124ES-T
Q203
DTC124EK-TLB
R238
220
7. 2MHz
C231
15PCH
C232
15PCH
X201
ASS1005
C233
100P CH
C234
100P CH
C235
100P CH
GND

Notes

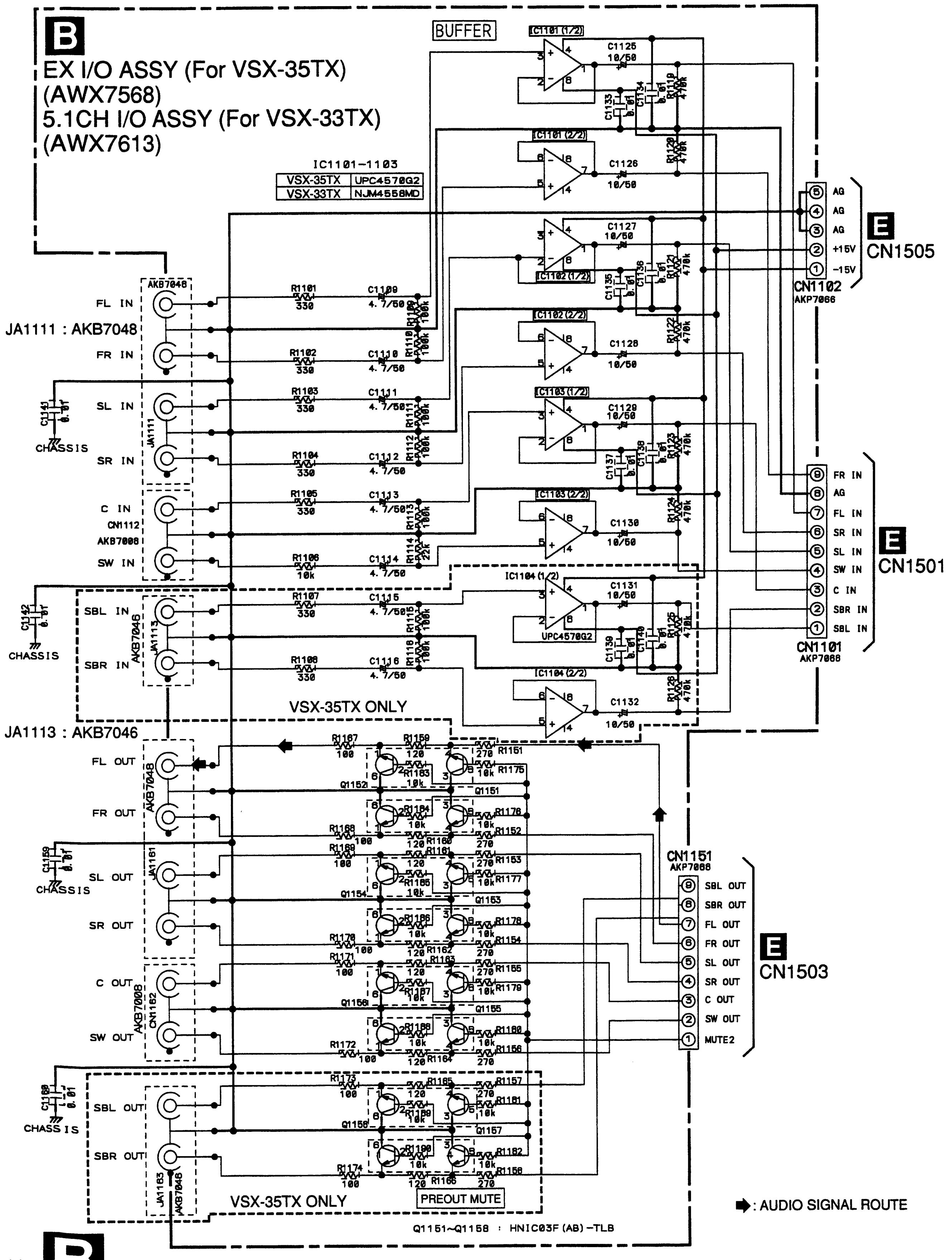
1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K;KΩ, M;MΩ.
2. CAPACITORS
   Indicated in Capacity(µF)/VOLTAGE (V) unless otherwise noted P;PF.
3. DIODES
   No mark diode is 1SS133.

⬭ : The power supply is shown with the marked box.

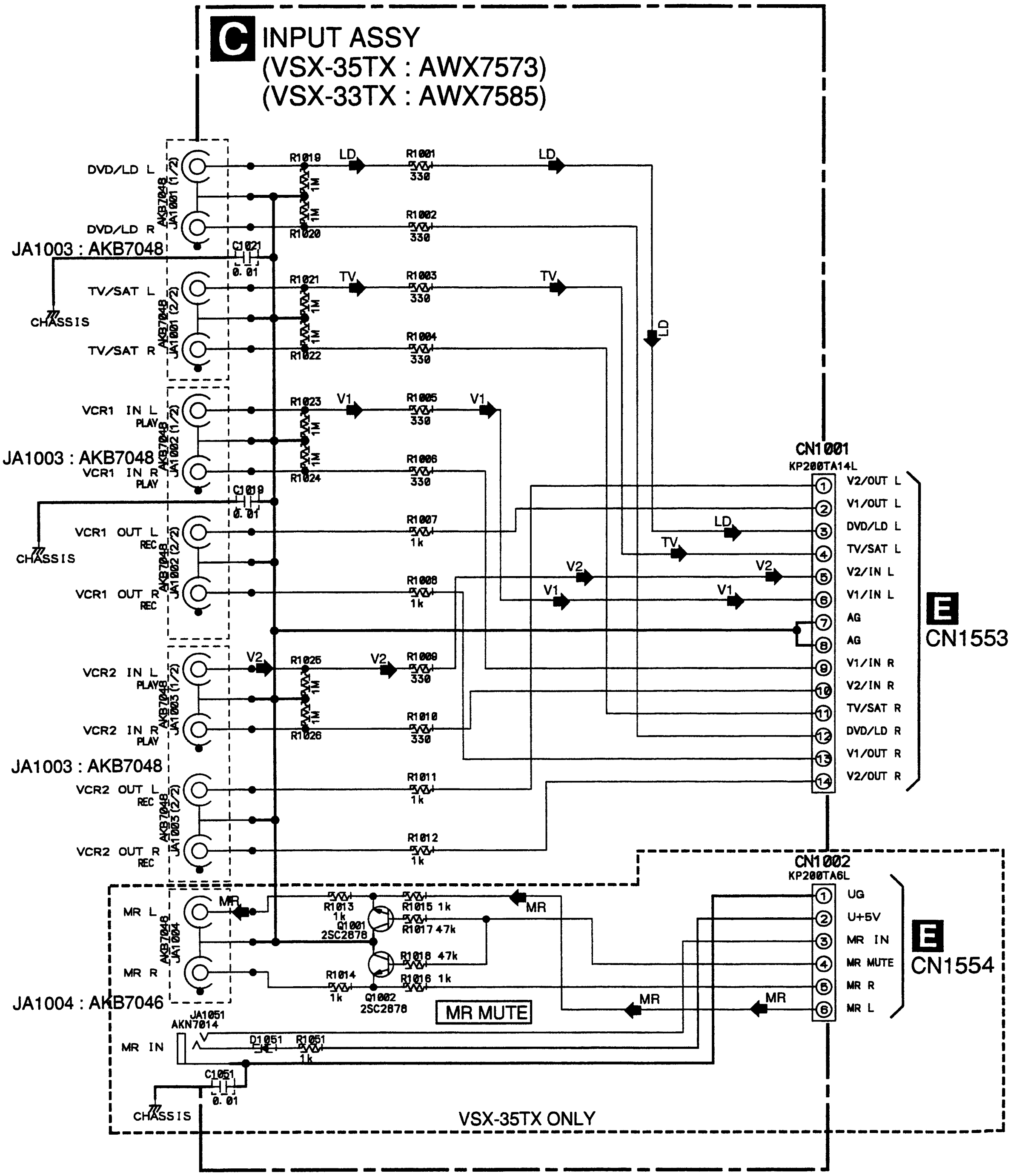
(TX) ➡ : AUDIO SIGNAL ROUTE (TUNER)
(AM) ⇨ : AM SIGNAL ROUTE
(FM) ⇨ : FM SIGNAL ROUTE


F203
ATF7026
AM/FM IF+MPX IC
IC201 BA1451F-TBB
FMIF IN
Vcc
FM TUNE ADJ
GND
FM DET
TUNE IND
ST IND
IF REQ/MUTE
IF OUT
R-ch
L-ch
AM/FM
MONO
MPX IN FM
MPX IN AM
AM/FM DETOUT
AMIF IN
AM MIX OUT
AM RF IN
FM BW ADJ
AM OSC
VREG
AM OSC OUT
L201
ATE7003
ADJ
IC202
LC72131MD-TFB
PLL IC
XOUT
VSS
AOUT
AIN
PD
VDD
FMIN
AMIN
FM/AM
IFIN
XIN
CE
DI
CL
DO
RFATT
SW1
SW2
MONO
IN
VD5
V10
(+B)
(+10V)
Q205
2SC2412K
Q204
2SC2412-TLB
D201
1SS133
D202
MTZ5.6C
AA
A00
A01
A02
A03
CN201
52044-1345
CE
DI
CLK
DO
Roh
GND
Loh
MUTE/IF REQ.
STEREO
TUNE
+10V
RDS
NC
D 3/3 CN291
(TX)
(AM)
(FM)
GND

3.4 EX I/O (5.1CH I/O) ASSY


B
EX I/O ASSY (For VSX-35TX)
(AWX7568)
5.1CH I/O ASSY (For VSX-33TX)
(AWX7613)
BUFFER
IC1101-1103
VSX-35TX UPC4570G2
VSX-33TX NJM4558MD
IC1101 (1/2)
IC1101 (2/2)
IC1102 (1/2)
IC1102 (2/2)
IC1103 (1/2)
IC1103 (2/2)
IC1104 (1/2)
IC1104 (2/2)
UPC4570G2
C1125 10/50
C1126 10/50
C1127 10/50
C1128 10/50
C1129 10/50
C1130 10/50
C1131 10/50
C1132 10/50
C1133 0.01
C1134 0.01
C1135 0.01
C1136 0.01
C1137 0.01
C1138 0.01
C1139 0.01
C1140 0.01
R1119 470k
R1120 470k
R1121 470k
R1122 470k
R1123 470k
R1124 470k
R1125 470k
R1126 470k
AKB7048
JA1111 : AKB7048
FL IN
FR IN
SL IN
SR IN
C IN
SW IN
CN1112
AKB7008
SBL IN
SBR IN
JA1113
AKB7046
JA1113 : AKB7046
C1141 0.01
C1142 0.01
CHASSIS
R1101 330
R1102 330
R1103 330
R1104 330
R1105 330
R1106 10k
R1107 330
R1108 330
C1109 4.7/50
C1110 4.7/50
C1111 4.7/50
C1112 4.7/50
C1113 4.7/50
C1114 4.7/50
C1115 4.7/50
C1116 4.7/50
R1109 100k
R1110 100k
R1111 100k
R1112 100k
R1113 100k
R1114 22k
R1115 100k
R1116 100k
VSX-35TX ONLY
AG
AG
AG
+15V
-15V
E
CN1505
CN1102
AKP7066
FR IN
AG
FL IN
SR IN
SL IN
SW IN
C IN
SBR IN
SBL IN
E
CN1501
CN1101
AKP7068
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
SBL OUT
SBR OUT
JA1161
JA1163
AKB7048
CN1162
AKB7008
C1159 0.01
C1160 0.01
R1167 100
R1168 100
R1169 100
R1170 100
R1171 100
R1172 100
R1173 100
R1174 100
R1159 120
R1160 120
R1161 120
R1162 120
R1163 10k
R1164 120
R1165 120
R1166 120
R1183 10k
R1184 10k
R1185 10k
R1186 10k
R1187 10k
R1188 10k
R1189 10k
R1190 10k
R1151 270
R1152 270
R1153 270
R1154 270
R1155 270
R1156 270
R1157 270
R1158 270
R1175 10k
R1176 10k
R1177 10k
R1178 10k
R1179 10k
R1180 10k
R1181 10k
R1182 10k
Q1151
Q1152
Q1153
Q1154
Q1155
Q1156
Q1157
Q1158
CN1151
AKP7066
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
E
CN1503
PREOUT MUTE
VSX-35TX ONLY
Q1151~Q1158 : HN1C03F (AB) -TLB
➡: AUDIO SIGNAL ROUTE

3.5 INPUT ASSY


C INPUT ASSY
(VSX-35TX : AWX7573)
(VSX-33TX : AWX7585)
DVD/LD L
DVD/LD R
JA1003 : AKB7048
AKB7048 JA1001 (1/2)
C1021 0.01
TV/SAT L
TV/SAT R
AKB7048 JA1001 (2/2)
CHASSIS
VCR1 IN L PLAY
VCR1 IN R PLAY
AKB7048 JA1002 (1/2)
C1019 0.01
VCR1 OUT L REC
VCR1 OUT R REC
AKB7048 JA1002 (2/2)
VCR2 IN L PLAY
VCR2 IN R PLAY
AKB7048 JA1003 (1/2)
VCR2 OUT L REC
VCR2 OUT R REC
AKB7048 JA1003 (2/2)
MR L
MR R
AKB7046 JA1004
JA1004 : AKB7046
R1019 1M
R1020 1M
R1021 1M
R1022 1M
R1023 1M
R1024 1M
R1025 1M
R1026 1M
R1001 330
R1002 330
R1003 330
R1004 330
R1005 330
R1006 330
R1007 1k
R1008 1k
R1009 330
R1010 330
R1011 1k
R1012 1k
LD
TV
V1
V2
MR
R1013 1k
R1014 1k
R1015 1k
R1016 1k
R1017 47k
R1018 47k
Q1001 2SC2878
Q1002 2SC2878
MR MUTE
JA1051 AKN7014
MR IN
D1051
R1051 1k
C1051 0.01
VSX-35TX ONLY
CN1001 KP200TA14L
① V2/OUT L
② V1/OUT L
③ DVD/LD L
④ TV/SAT L
⑤ V2/IN L
⑥ V1/IN L
⑦ AG
⑧ AG
⑨ V1/IN R
⑩ V2/IN R
⑪ TV/SAT R
⑫ DVD/LD R
⑬ V1/OUT R
⑭ V2/OUT R
E CN1553
CN1002 KP200TA6L
① UG
② U+5V
③ MR IN
④ MR MUTE
⑤ MR R
⑥ MR L
E CN1554

➡: AUDIO SIGNAL ROUTE

LD ➡: AUDIO SIGNAL ROUTE (LD)

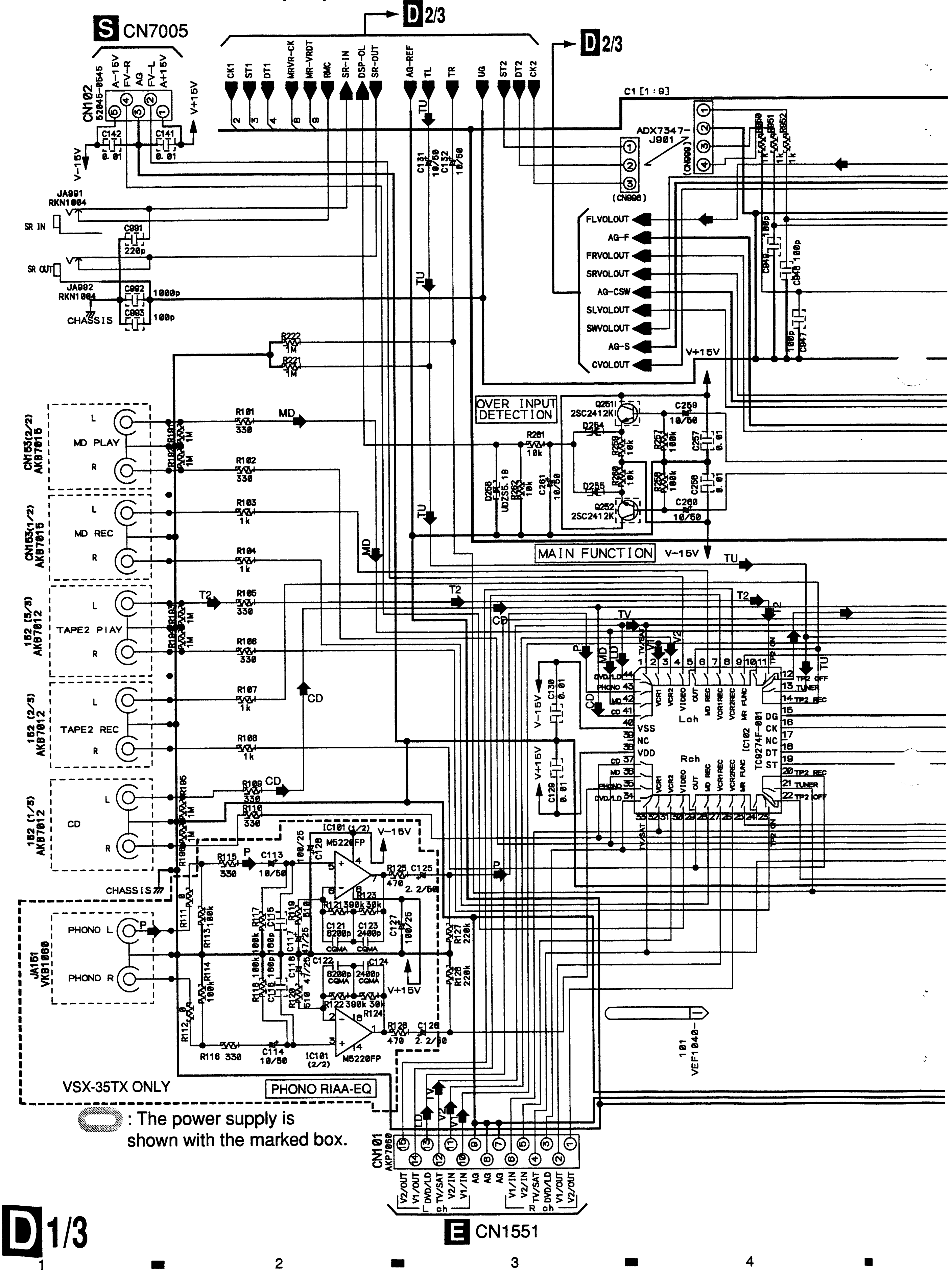
TV ➡: AUDIO SIGNAL ROUTE (TV)

V1 ➡: AUDIO SIGNAL ROUTE (VCR1)

V2 ➡: AUDIO SIGNAL ROUTE (VCR2)

MR ➡: AUDIO SIGNAL ROUTE (MR)

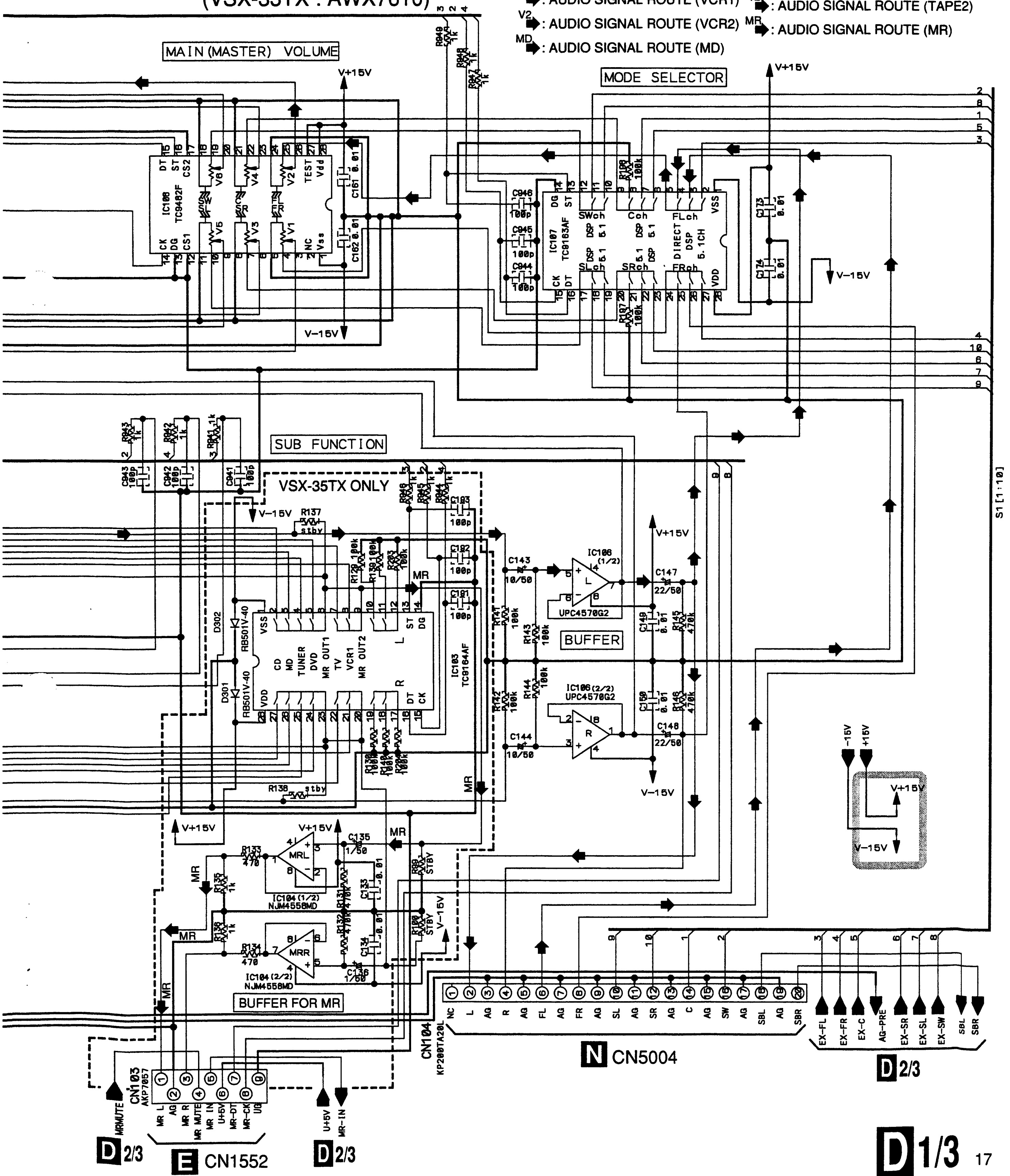
3.6 MAIN CONTROL ASSY (1/3)


D 2/3
S CN7005
D 2/3
CN102 52045-0545
A-15V
FV-R
AG
FV-L
A+15V
V+15V
V-15V
C142 0.01
C141 0.01
CK1
ST1
DT1
MRVR-CK
MR-VRDT
RMC
SR-IN
DSP-OL
SR-OUT
AG-REF
TL
TR
UG
ST2
DT2
CK2
C1 [1:9]
ADX7347-J901
(CN900)
(CN999)
R950
R951
R952
1k
C131 10/50
C132 10/50
TU
JA991 RKN1004
SR IN
C991 220p
SR OUT
JA992 RKN1004
C992 1000p
C993 100p
CHASSIS
FLVOLOUT
AG-F
FRVOLOUT
SRVOLOUT
AG-CSW
SLVOLOUT
SWVOLOUT
AG-S
CVOLOUT
C949 100p
C948 100p
C947 100p
V+15V
R222 1M
R221 1M
OVER INPUT DETECTION
Q251 2SC2412K
Q252 2SC2412K
C259 10/50
D254
D255
R261 10k
R259 10k
R260 10k
R257 100k
R258 100k
C257 0.01
C258 0.01
C260 10/50
D256 UDZS5.1B
R262 10k
C261 10/50
MAIN FUNCTION
V-15V
CN153(2/2) AKB7015
MD PLAY
L
R
R101 330
R102 330
R197 1M
R198 1M
MD
CN153(1/2) AKB7015
MD REC
R103 1k
R104 1k
152 (3/3) AKB7012
TAPE2 PLAY
T2
R105 330
R106 330
R107 1M
R108 1M
152 (2/3) AKB7012
TAPE2 REC
R107 1k
R108 1k
CD
152 (1/3) AKB7012
R109 330
R110 330
R195 1M
R196 1M
R111
R112
R113 100k
R114 100k
R115 330
R116 330
P
C113 10/50
C114 10/50
IC101 (1/2) M5220FP
IC101 (2/2) M5220FP
C128 100/25
R117 100k
R118 100k
C115 180p
C116 180p
R119 510
R120 510
C117 47/25
C118 47/25
R121 390k
R122 390k
R123 30k
R124 30k
C121 8200p CQMA
C122 8200p CQMA
C123 2400p CQMA
C124 2400p CQMA
C127 100/25
R125 470
R126 470
C125 2.2/50
C126 2.2/50
R127 220k
R128 220k
JA151 VKB1060
PHONO L
PHONO R
VSX-35TX ONLY
PHONO RIAA-EQ
CHASSIS
C130 0.01
C129 0.01
V-15V
V+15V
TV
V1
V2
TV/SAT
DVD/LD
PHONO
MD
CD
VSS
NC
VDD
VCR1
VCR2
VIDEO
OUT
MD REC
VCR1 REC
VCR2 REC
MR FUNC
Lch
Rch
IC102 TC9274F-001
TP2 ON
TP2 OFF
TUNER
TP2 REC
DG
CK
NC
DT
ST
101 VEF1040-
CN101 AKP7060
V2/OUT
V1/OUT
DVD/LD
TV/SAT
V2/IN
V1/IN
AG
L ch
R ch
E CN1551

: The power supply is shown with the marked box.

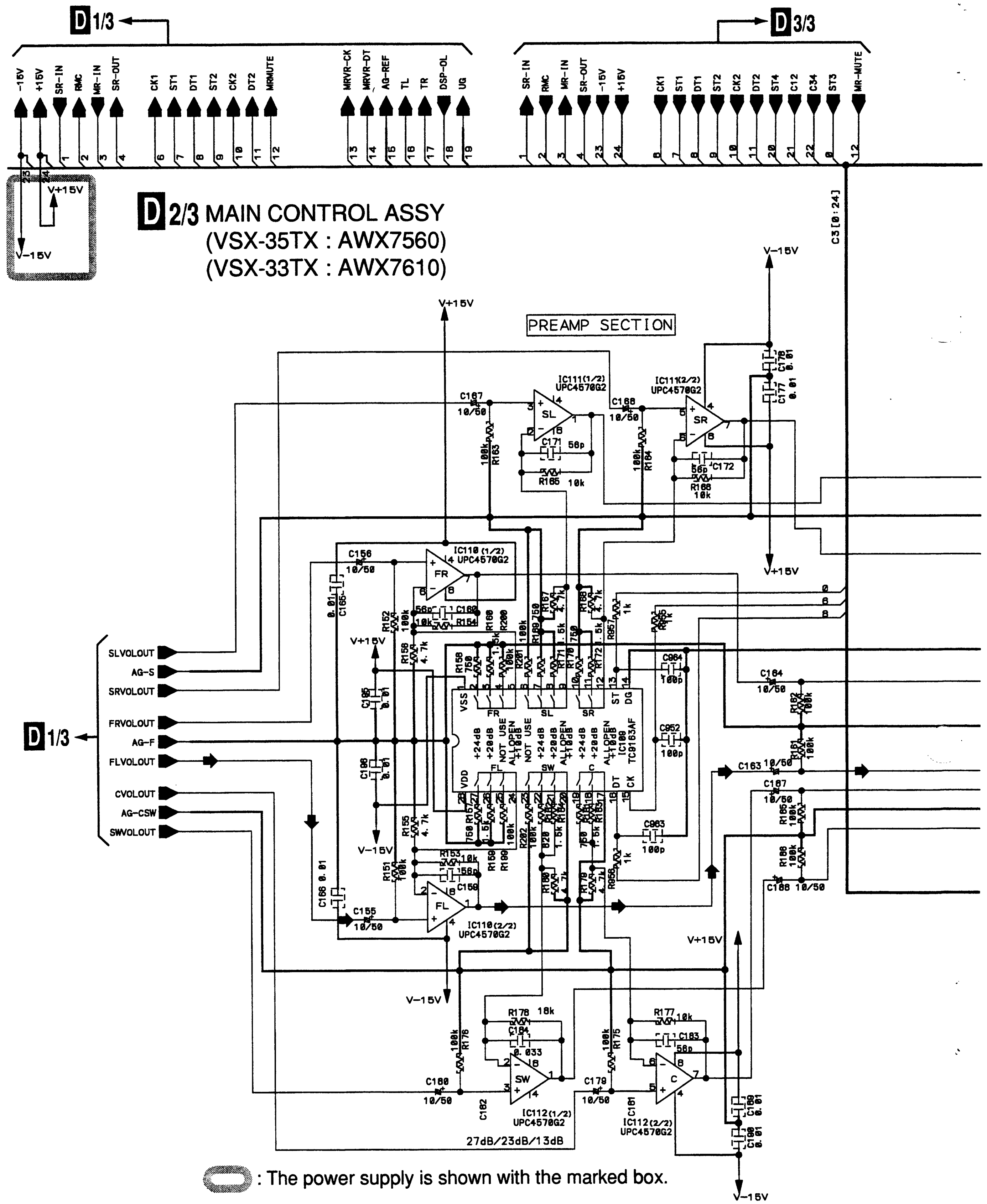
D 1/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)

➡: AUDIO SIGNAL ROUTE
LD ➡: AUDIO SIGNAL ROUTE (LD)
TV ➡: AUDIO SIGNAL ROUTE (TV)
V1 ➡: AUDIO SIGNAL ROUTE (VCR1)
V2 ➡: AUDIO SIGNAL ROUTE (VCR2)
MD ➡: AUDIO SIGNAL ROUTE (MD)
P ➡: AUDIO SIGNAL ROUTE (PHONO)
TU ➡: AUDIO SIGNAL ROUTE (TUNER)
CD ➡: AUDIO SIGNAL ROUTE (CD)
T2 ➡: AUDIO SIGNAL ROUTE (TAPE2)
MR ➡: AUDIO SIGNAL ROUTE (MR)

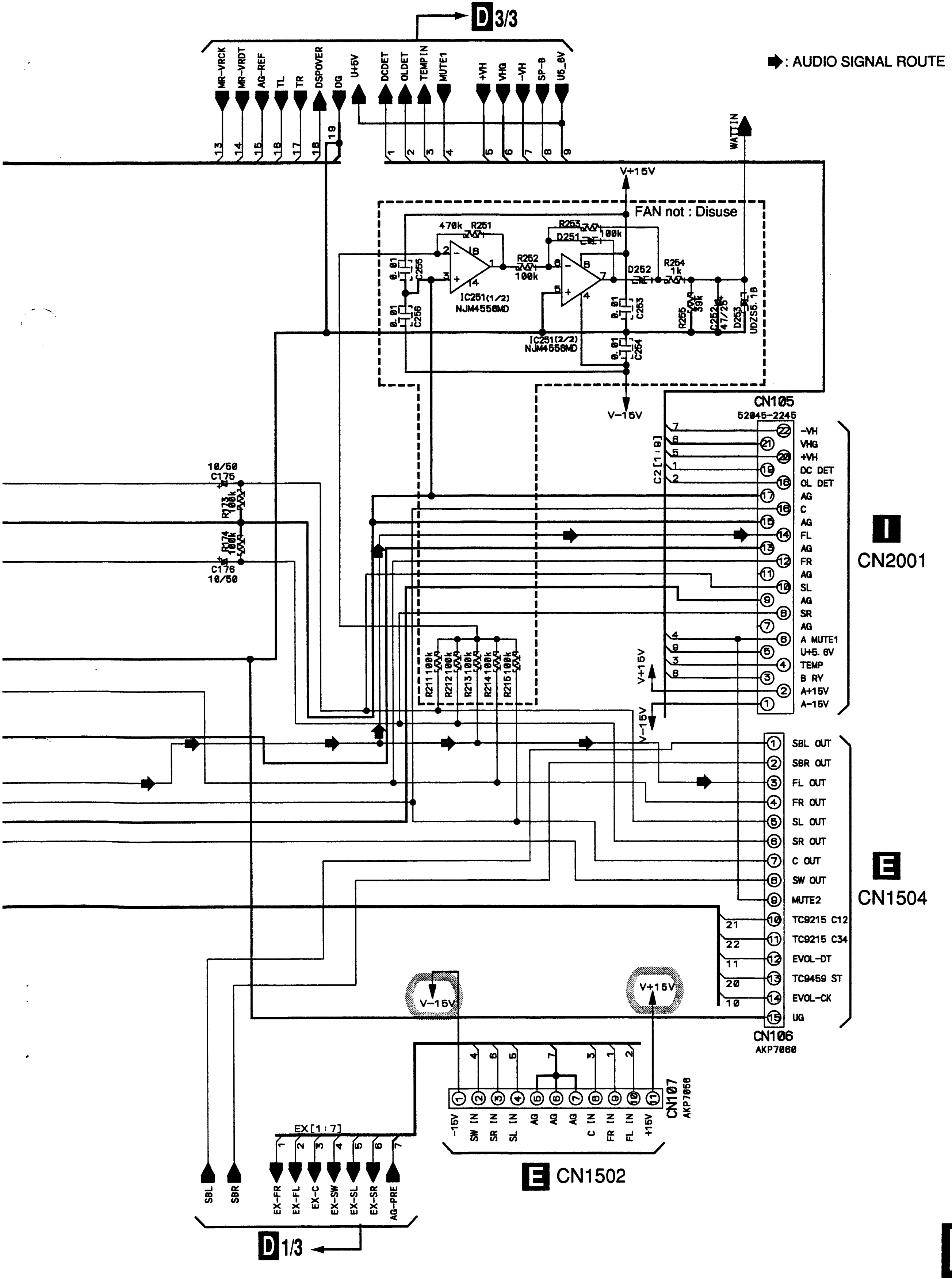

MAIN (MASTER) VOLUME
IC100 TC9482F
V+15V
V-15V
C161 0.01
C162 0.01
R049 1k
R048 1k
R047 1k
MODE SELECTOR
IC107 TC9163AF
SWch
Cch
FLch
SLch
SRch
FRch
DSP 5.1
DIRECT DSP 5.1CH
C046 100p
C045 100p
C044 100p
R198 100k
R197 100k
C173 0.01
C174 0.01
S1[1:10]
SUB FUNCTION
R043 1k
R042 1k
R041 1k
C043 100p
C042 100p
C041 100p
VSX-35TX ONLY
R137 stby
R138 stby
D302 RB501V-40
D301 RB501V-40
IC103 TC9164AF
CD
MD
TUNER
DVD
MR OUT1
TV
VCR1
MR OUT2
MR
C193 100p
C192 100p
C191 100p
C143 10/50
C144 10/50
IC106 (1/2) UPC4570G2
IC106 (2/2) UPC4570G2
BUFFER
R141 100k
R142 100k
R143 100k
R144 100k
C147 22/50
C148 22/50
C149 0.01
C150 0.01
R145 470k
R146 470k
MRL
MRR
IC104 (1/2) NJM4558MD
IC104 (2/2) NJM4558MD
R133 470
R134 470
R135 1k
R136 1k
C135 1/50
C136 1/50
C133 0.01
C134 0.01
R99 STBY
R100 STBY
BUFFER FOR MR
CN103 AKP7057
MR L
AG
MR R
MR MUTE
MR IN
U+5V
MR-DT
MR-CK
UG
MRMUTE
U+5V
MR-IN
D 2/3
E CN1552
CN104 KP200TA20L
NC L AG R AG FL AG FR AG SL AG SR AG C AG SW AG SBL AG SBR
N CN5004
EX-FL EX-FR EX-C AG-PRE EX-SR EX-SL EX-SW SBL SBR
D 2/3
-15V +15V

D 1/3

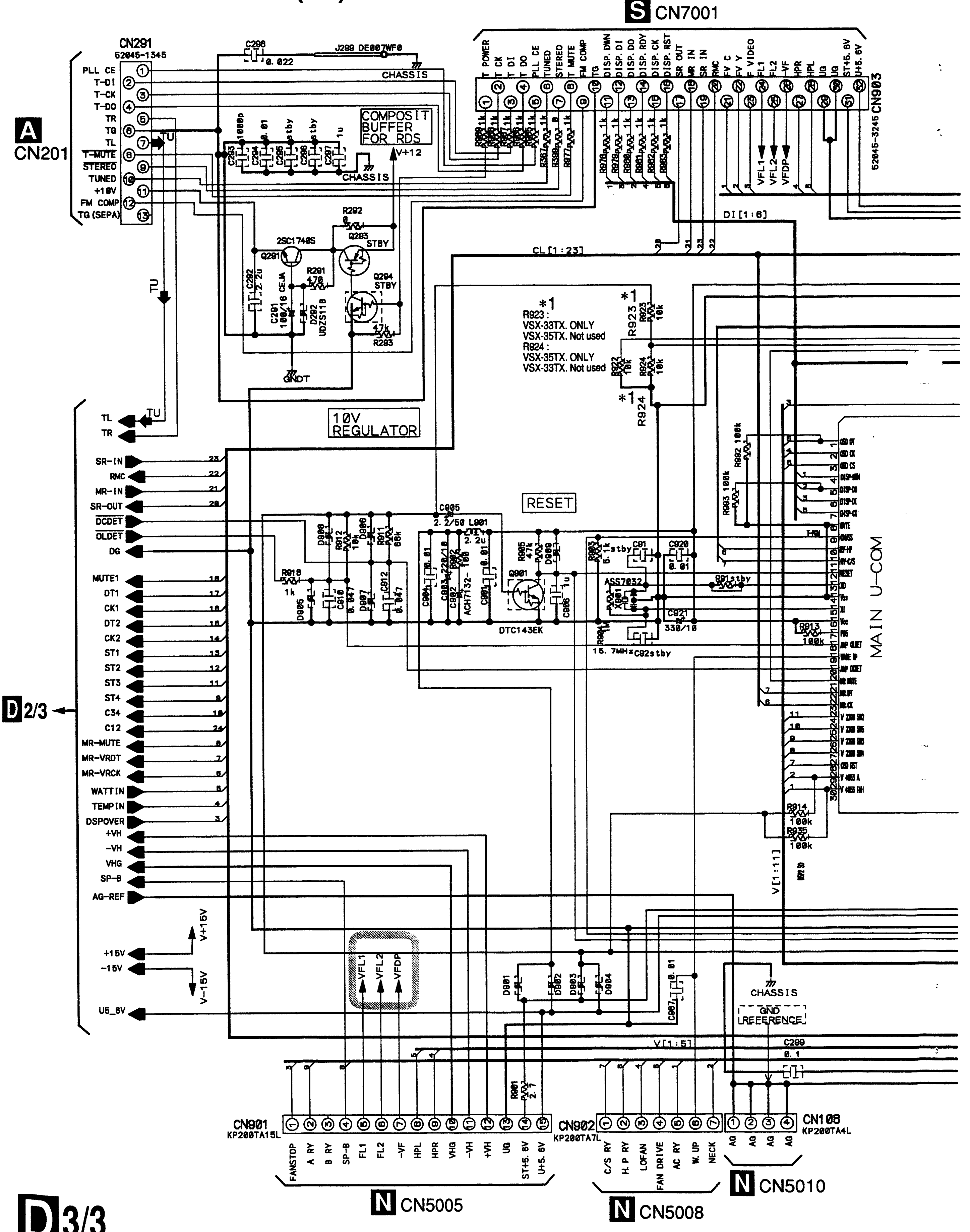
3.7 MAIN CONTROL ASSY (2/3)


D 1/3
D 3/3
-15V
+15V
SR-IN
RMC
MR-IN
SR-OUT
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
MRVR-CK
MRVR-DT
AG-REF
TL
TR
DSP-OL
UG
-15V
+15V
CK1
ST1
DT1
ST2
CK2
DT2
ST4
C12
C34
ST3
MR-MUTE
V+15V
V-15V
D 2/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)
C3 [0:24]
PREAMP SECTION
IC111(1/2) UPC4570G2
IC111(2/2) UPC4570G2
IC110(1/2) UPC4570G2
IC110(2/2) UPC4570G2
IC112(1/2) UPC4570G2
IC112(2/2) UPC4570G2
IC109 TC9163AF
SL
SR
FR
FL
SW
C
VSS
VDD
ST
DG
DT
CK
+24dB
+20dB
NOT USE
ALL OPEN
+10dB
SLVOLOUT
AG-S
SRVOLOUT
FRVOLOUT
AG-F
FLVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
D 1/3
C167 10/50
C168 10/50
C171 56p
C172 56p
R165 10k
R166 10k
R163 100k
R164 100k
C177 0.01
C178 0.01
C156 10/50
C165 0.01
C160 56p
R152 100k
R154 10k
R156 4.7k
R158 750
R160 100k
R200 100k
R169 750
R167 1.5k
R201 100k
R171 4.7k
R170 750
R168 1.5k
R172 4.7k
R957 1k
R955 1k
C964 100p
C952 100p
C963 100p
C164 10/50
R162 100k
R161 100k
C163 10/50
C167 10/50
R165 100k
R166 100k
C168 10/50
C195 0.01
C196 0.01
R155 4.7k
R153 10k
C159 56p
R151 100k
R157 750
R159 1.5k
R199 100k
R202 100k
R180 820
R178 1.5k
R179 4.7k
R956 1k
C166 0.01
C155 10/50
R178 10k
C184 0.033
R176 100k
C180 10/50
C182
R177 10k
C183 56p
R175 100k
C179 10/50
C181
C189 0.01
C190 0.01
27dB/23dB/13dB

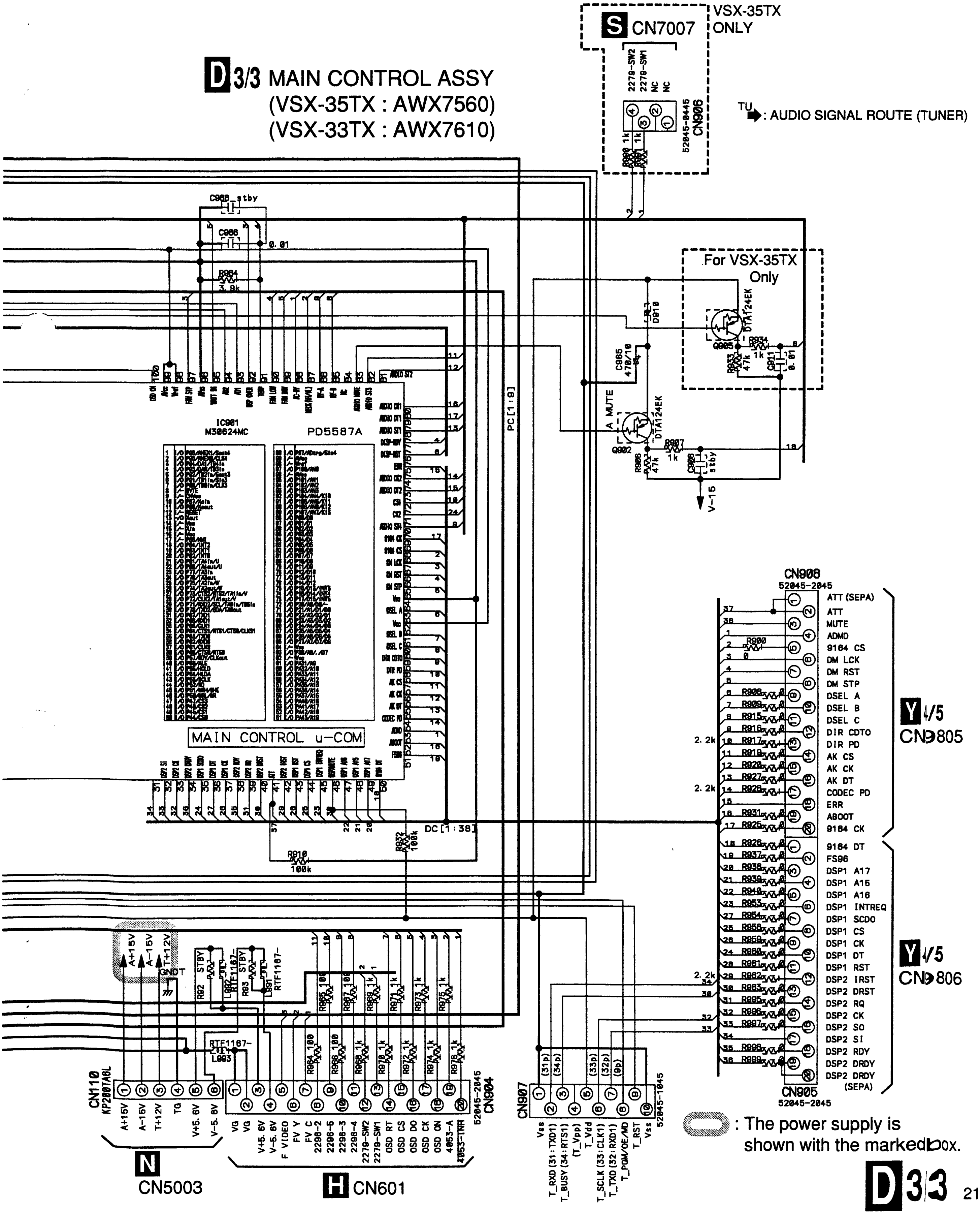
: The power supply is shown with the marked box.


D 3/3
MR-VRCK
MR-VRDT
AG-REF
TL
TR
DSPOVER
DG
U+5V
DCDET
OLDET
TEMPIN
MUTE1
+VH
VHG
-VH
SP-B
U5_6V
WATTIN
➡: AUDIO SIGNAL ROUTE
V+15V
FAN not : Disuse
470k R251
R252 100k
R253 100k
D251
D252
R254 1k
R255 39k
C252 47/25
D253 UDZS5.1B
0.01 C255
0.01 C256
0.01 C253
0.01 C254
IC251(1/2) NJM4558MD
IC251(2/2) NJM4558MD
V-15V
10/50 C175
R173 100k
R174 100k
C176 10/50
R211 100k
R212 100k
R213 100k
R214 100k
R215 100k
CN105 52045-2245
C2[1:9]
-VH
VHG
+VH
DC DET
OL DET
AG
C
AG
FL
AG
FR
AG
SL
AG
SR
AG
A MUTE1
U+5.6V
TEMP
B RY
A+15V
A-15V
I CN2001
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
TC9215 C12
TC9215 C34
EVOL-DT
TC9459 ST
EVOL-CK
UG
E CN1504
CN106 AKP7060
CN107 AKP7058
-15V
SW IN
SR IN
SL IN
AG
AG
AG
C IN
FR IN
FL IN
+15V
E CN1502
EX[1:7]
SBL
SBR
EX-FR
EX-FL
EX-C
EX-SW
EX-SL
EX-SR
AG-PRE
D 1/3

3.8 MAIN CONTROL ASSY (3/3)

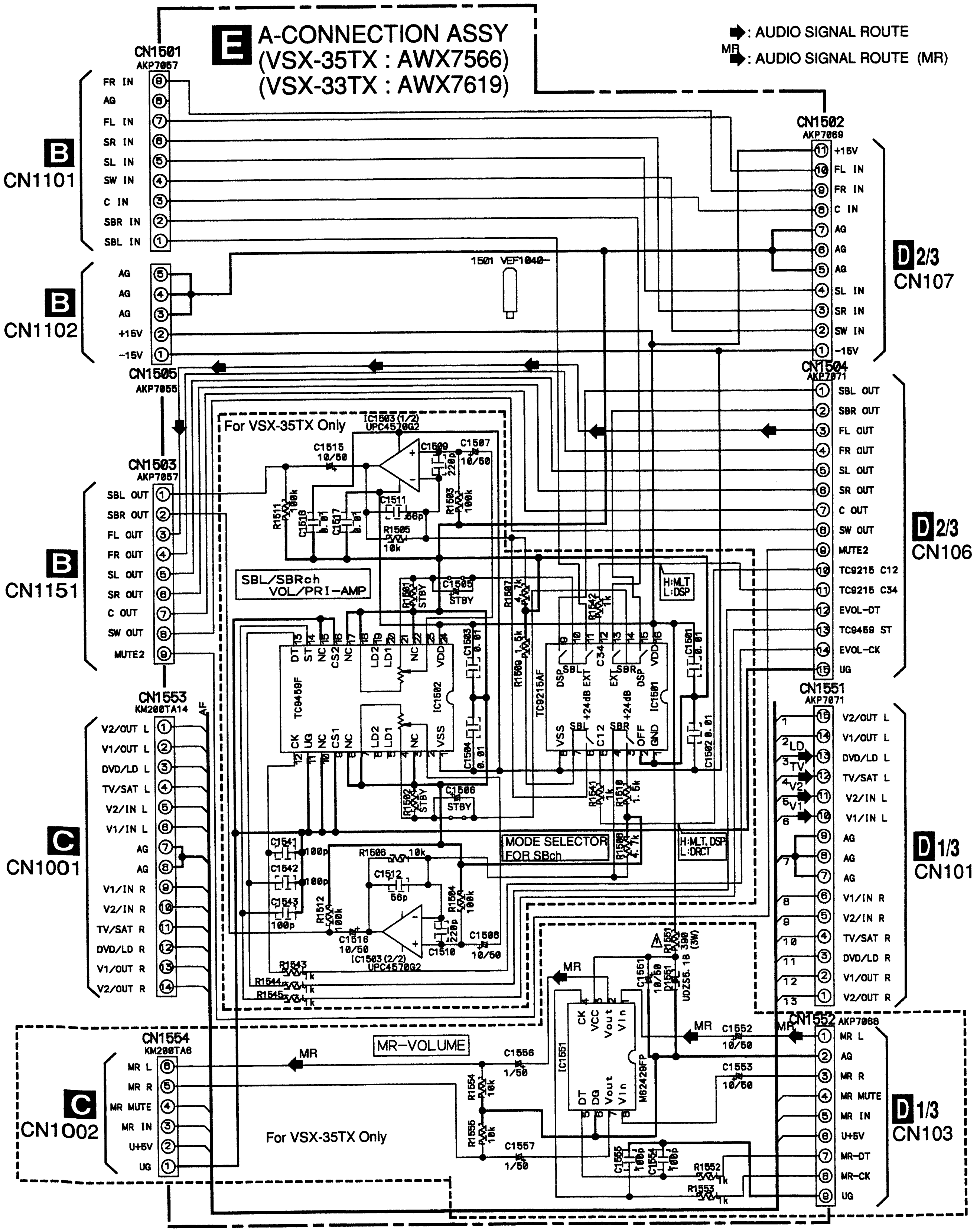

S CN7001
CN291
52045-1345
PLL CE
T-DI
T-CK
T-DO
TR
TG
TL
T-MUTE
STEREO
TUNED
+10V
FM COMP
TG (SEPA)
A CN201
C298
0.022
J299 DE007WF0
CHASSIS
COMPOSIT BUFFER FOR RDS
V+12
2SC1740S
Q291
Q293 STBY
Q294 STBY
R292
R291 470
R293 47k
D292 UDZS11B
C291 100/16
C292 2.2u
GNDT
TU
10V REGULATOR
T POWER
T CK
T DI
T DO
PLL CE
TUNED
STEREO
T MUTE
FM COMP
TG
DISP. DWN
DISP. DI
DISP. DO
DISP. RDY
DISP. CK
DISP. RST
SR OUT
MR IN
SR IN
RMC
FV C
FV Y
F VIDEO
FL1
FL2
-VF
HPR
HPL
UG
UG
ST+5.6V
U+5.6V
CN903
52045-3245
VFL1
VFL2
VFDP
DI [1:6]
CL [1:23]
*1
R923 :
VSX-33TX. ONLY
VSX-35TX. Not used
R924 :
VSX-35TX. ONLY
VSX-33TX. Not used
R923 10k
R922 10k
R924 10k
RESET
C905 2.2/50
L901 2.2u
Q901
DTC143EK
ASS7032
X901
16.7MHz
C920 0.01
C921 330/10
R913 100k
R914 100k
R935 100k
R992 100k
R993 100k
MAIN U-COM
V[1:11]
TL
TR
SR-IN
RMC
MR-IN
SR-OUT
DCDET
OLDET
DG
MUTE1
DT1
CK1
DT2
CK2
ST1
ST2
ST3
ST4
C34
C12
MR-MUTE
MR-VRDT
MR-VRCK
WATTIN
TEMPIN
DSPOVER
+VH
-VH
VHG
SP-B
AG-REF
D 2/3
V+15V
+15V
-15V
V-15V
U5_6V
VFL1
VFL2
VFDP
D901
D902
D903
D904
C907 0.01
CHASSIS
GND REFERENCE
V[1:5]
C299 0.1
R901 2.7
CN901
KP200TA15L
FANSTOP
A RY
B RY
SP-B
FL1
FL2
-VF
HPL
HPR
VHG
-VH
+VH
UG
ST+5.6V
U+5.6V
CN902
KP200TA7L
C/S RY
H.P RY
LOFAN
FAN DRIVE
AC RY
W.UP
NECK
CN108
KP200TA4L
AG
AG
AG
AG
N CN5005
N CN5008
N CN5010

D 3/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)

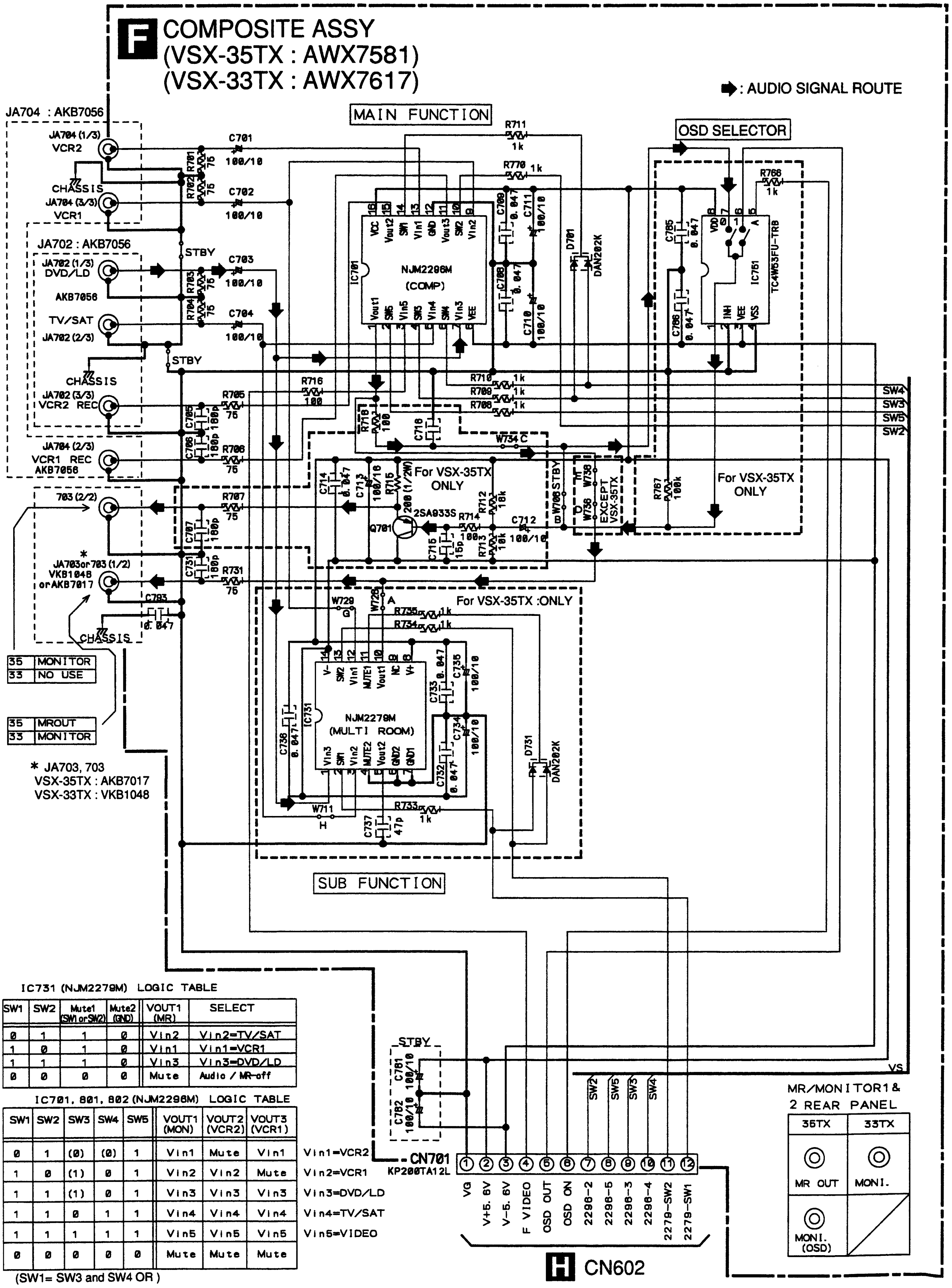

S CN7007
VSX-35TX ONLY
2270-SW2
2270-SW1
NC
NC
52045-0445
CN906
R900 1k
R901 1k
TU ➔ : AUDIO SIGNAL ROUTE (TUNER)
C968 stby
C966
0.01
R964
3.9k
For VSX-35TX Only
D910
DTA124EK
Q905
R934 1k
R933 47k
C911 0.01
C965 470/10
A MUTE
DTA124EK
Q902
R906 47k
R907 1k
C908 stby
V-15
IC901
M30624MC
PD5587A
MAIN CONTROL u-COM
PC[1:9]
DC[1:38]
R910 100k
R932 100k
CN908
52045-2045
ATT (SEPA)
ATT
MUTE
ADMD
9164 CS
DM LCK
DM RST
DM STP
DSEL A
DSEL B
DSEL C
DIR CDTO
DIR PD
AK CS
AK CK
AK DT
CODEC PD
ERR
ABOOT
9164 CK
9164 DT
FS96
DSP1 A17
DSP1 A16
DSP1 A16
DSP1 INTREQ
DSP1 SCDO
DSP1 CS
DSP1 CK
DSP1 DT
DSP1 RST
DSP2 IRST
DSP2 DRST
DSP2 RQ
DSP2 CK
DSP2 SO
DSP2 SI
DSP2 RDY
DSP2 DRDY
DSP2 DRDY (SEPA)
CN905
52045-2045
Y 4/5 CN9805
Y 4/5 CN9806
R980 0
2.2k
A+15V
A-15V
T+12V
GNDT
STBY
R92
L982 RTF1167-
R93
L981 RTF1167-
RTF1167-
L983
CN110
KP200TA6L
A+15V
A-15V
T+12V
TG
V+5.6V
V-5.6V
VG
VG
V+5.6V
F VIDEO
FV Y
FV C
2298-2
2298-3
2298-4
2270-SW2
2270-SW1
OSD RT
OSD CS
OSD DO
OSD CK
OSD ON
4053-A
4053-INH
52045-2045
CN904
CN907
52045-1045
Vss
T_RXD (31:TXD1)
T_BUSY (34:RTS1)
(T_Vpp)
T_Vdd
T_SCLK (33:CLK1)
T_TXD (32:RXD1)
T_PGM/OE/MD
T_RST
Vss
N CN5003
H CN601

: The power supply is shown with the marked box.

3.9 A-CONNECTION ASSY


E A-CONNECTION ASSY
(VSX-35TX : AWX7566)
(VSX-33TX : AWX7619)
: AUDIO SIGNAL ROUTE
MR : AUDIO SIGNAL ROUTE (MR)
CN1501 AKP7057
FR IN
AG
FL IN
SR IN
SL IN
SW IN
C IN
SBR IN
SBL IN
B CN1101
B CN1102
AG
AG
AG
+15V
-15V
CN1502 AKP7069
+15V
FL IN
FR IN
C IN
AG
AG
AG
SL IN
SR IN
SW IN
-15V
D 2/3 CN107
1501 VEF1040
CN1505 AKP7055
CN1504 AKP7071
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
TC9215 C12
TC9215 C34
EVOL-DT
TC9459 ST
EVOL-CK
UG
D 2/3 CN106
CN1503 AKP7057
B CN1151
For VSX-35TX Only
IC1503 (1/2) UPC4570G2
C1515 10/50
C1509 220p
C1507 10/50
R1511 100k
C1518 0.01
C1517 0.01
C1511 56p
R1505 10k
R1503 100k
SBL/SBRch VOL/PRI-AMP
R1501 STBY
C1505 STBY
R1507 4.7k
R1542 1k
H:MLT L:DSP
TC9459F
IC1502
C1503 0.01
C1504 0.01
R1508 1.5k
TC9215AF
IC1501
C1501 0.01
C1502 0.01
R1502 STBY
C1506 STBY
R1541 1k
R1510 1.5k
R1509 4.7k
MODE SELECTOR FOR SBch
H:MLT, DSP L:DRCT
C1541 100p
C1542 100p
C1543 100p
R1506 10k
C1512 56p
R1512 100k
R1504 100k
C1516 10/50
C1510 220p
C1508 10/50
IC1503 (2/2) UPC4570G2
R1543 1k
R1544 1k
R1545 1k
CN1553 KM200TA14
AF
V2/OUT L
V1/OUT L
DVD/LD L
TV/SAT L
V2/IN L
V1/IN L
AG
AG
V1/IN R
V2/IN R
TV/SAT R
DVD/LD R
V1/OUT R
V2/OUT R
C CN1001
CN1551 AKP7071
LD
TV
V2
V1
D 1/3 CN101
R1551
C1551 10/50
D1551 UDZS5.1B
390 (3W)
MR
IC1551
M62420FP
CK VCC Vout Vin
DT DG Vout Vin
C1552 10/50
C1553 10/50
CN1552 AKP7068
MR L
AG
MR R
MR MUTE
MR IN
U+5V
MR-DT
MR-CK
UG
D 1/3 CN103
CN1554 KM200TA6
MR-VOLUME
C1556 1/50
R1554 10k
R1555 10k
C1557 1/50
C1555 100p
C1554 100p
R1552 1k
R1553 1k
MR L
MR R
MR MUTE
MR IN
U+5V
UG
C CN1002
For VSX-35TX Only

3.10 COMPOSITE ASSY


F COMPOSITE ASSY
(VSX-35TX : AWX7581)
(VSX-33TX : AWX7617)
➡: AUDIO SIGNAL ROUTE
MAIN FUNCTION
OSD SELECTOR
SUB FUNCTION
JA704 : AKB7056
JA704 (1/3) VCR2
CHASSIS
JA704 (3/3) VCR1
JA702 : AKB7056
JA702 (1/3) DVD/LD
AKB7056
TV/SAT
JA702 (2/3)
JA702 (3/3) VCR2 REC
JA704 (2/3) VCR1 REC
AKB7056
703 (2/2)
JA703or703 (1/2) VKB1048 or AKB7017
STBY
IC701 NJM2296M (COMP)
IC751 TC4W53FU-TR8
IC731 NJM2279M (MULTI ROOM)
D701 DAN202K
D731 DAN202K
Q701 2SA933S
For VSX-35TX ONLY
EXCEPT VSX-35TX
For VSX-35TX :ONLY
SW4
SW3
SW5
SW2
VS
35 MONITOR
33 NO USE
35 MROUT
33 MONITOR
* JA703, 703
VSX-35TX : AKB7017
VSX-33TX : VKB1048
CN701 KP200TA12L
VG
V+5. 6V
V-5. 6V
F VIDEO
OSD OUT
OSD ON
2298-2
2298-5
2298-3
2298-4
2279-SW2
2279-SW1
H CN602
MR/MONITOR1 & 2 REAR PANEL
35TX
33TX
MR OUT
MONI.
MONI. (OSD)

IC731 (NJM2279M) LOGIC TABLE

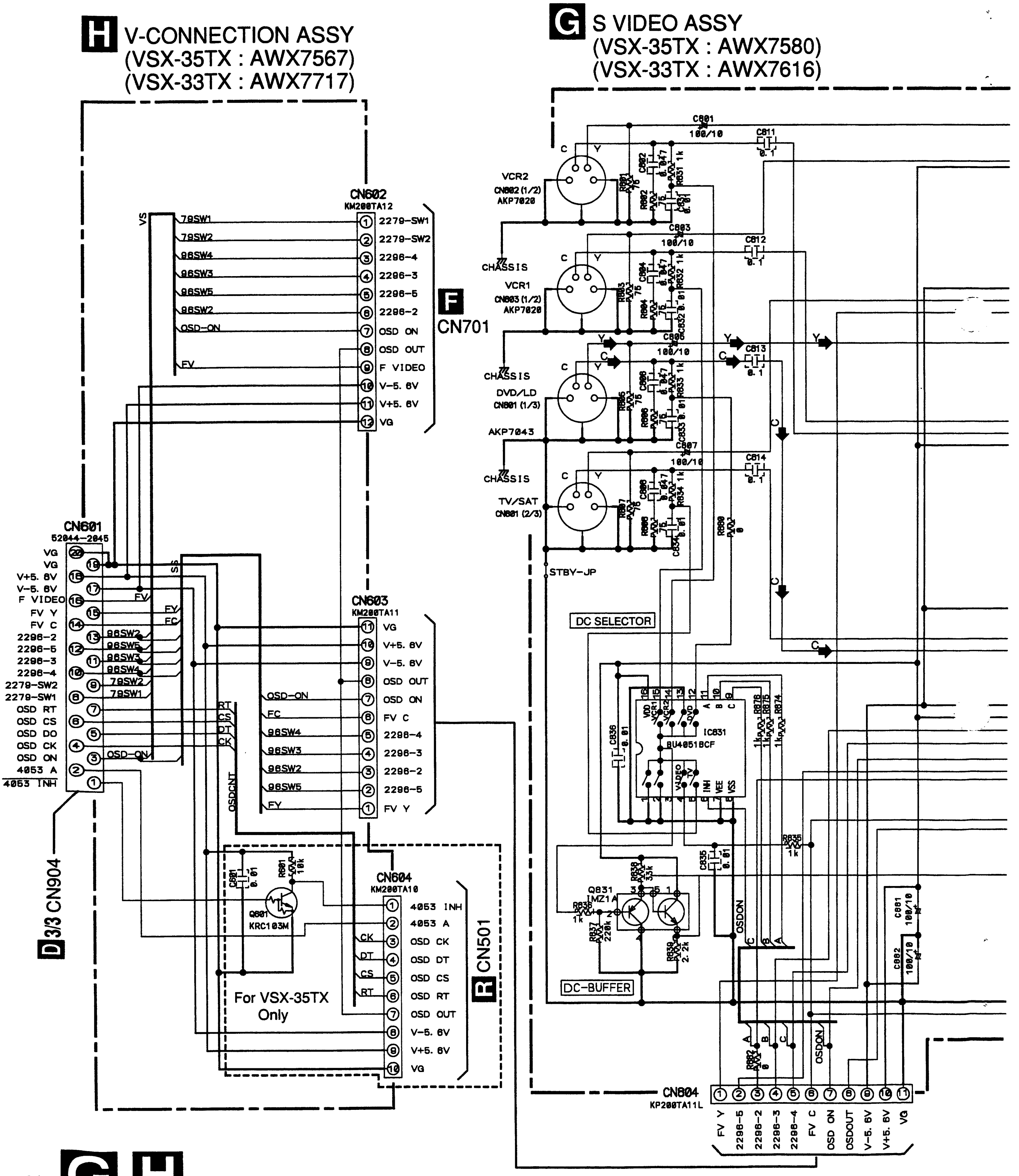
SW1	SW2	Mute1 (SW1 or SW2)	Mute2 (GND)	VOUT1 (MR)	SELECT
0	1	1	0	Vin2	Vin2=TV/SAT
1	0	1	0	Vin1	Vin1=VCR1
1	1	1	0	Vin3	Vin3=DVD/LD
0	0	0	0	Mute	Audio / MR-off

IC701, 801, 802 (NJM2296M) LOGIC TABLE

SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)	
0	1	(0)	(0)	1	Vin1	Mute	Vin1	Vin1=VCR2
1	0	(1)	0	1	Vin2	Vin2	Mute	Vin2=VCR1
1	1	(1)	0	1	Vin3	Vin3	Vin3	Vin3=DVD/LD
1	1	0	1	1	Vin4	Vin4	Vin4	Vin4=TV/SAT
1	1	1	1	1	Vin5	Vin5	Vin5	Vin5=VIDEO
0	0	0	0	0	Mute	Mute	Mute	

(SW1= SW3 and SW4 OR)

3.11 S VIDEO and V-CONNECTION ASSYS


H V-CONNECTION ASSY
(VSX-35TX : AWX7567)
(VSX-33TX : AWX7717)
G S VIDEO ASSY
(VSX-35TX : AWX7580)
(VSX-33TX : AWX7616)
CN602
KM200TA12
2279-SW1
2279-SW2
2296-4
2296-3
2296-5
2296-2
OSD ON
OSD OUT
F VIDEO
V-5.6V
V+5.6V
VG
F
CN701
79SW1
79SW2
96SW4
96SW3
96SW5
96SW2
OSD-ON
FV
VS
CN601
52044-2045
VG
VG
V+5.6V
V-5.6V
F VIDEO
FV Y
FV C
2296-2
2296-5
2296-3
2296-4
2279-SW2
2279-SW1
OSD RT
OSD CS
OSD DO
OSD CK
OSD ON
4053 A
4053 INH
D 3/3 CN904
CN603
KM200TA11
VG
V+5.6V
V-5.6V
OSD OUT
OSD ON
FV C
2296-4
2296-3
2296-2
2296-5
FV Y
RT
CS
DT
CK
FC
FY
OSDCNT
SS
CN604
KM200TA10
4053 INH
4053 A
OSD CK
OSD DT
OSD CS
OSD RT
OSD OUT
V-5.6V
V+5.6V
VG
R CN501
C601 0.01
R601 10k
Q601 KRC103M
For VSX-35TX Only
VCR2
CN802 (1/2)
AKP7020
VCR1
CN803 (1/2)
AKP7020
DVD/LD
CN801 (1/3)
AKP7043
TV/SAT
CN801 (2/3)
CHASSIS
C
Y
C801 100/10
C803 100/10
C805 100/10
C807 100/10
C811 0.1
C812 0.1
C813 0.1
C814 0.1
C802 0.047
C804 0.047
C806 0.047
C808 0.047
C831 0.01
C832 0.01
C833 0.01
C834 0.01
R801 75
R802 75
R803 75
R804 75
R805 75
R806 75
R807 75
R808 75
R831 1k
R832 1k
R833 1k
R834 1k
R880 0
STBY-JP
DC SELECTOR
IC831
BU4051BCF
VDD
VCR1
VCR2
DVD
VIDEO
TV
INH
VEE
VSS
A
B
C
R876 1k
R875 1k
R874 1k
C836 0.01
C835 0.01
R835 1k
R836 1k
R837 220k
R838 3.3k
R839 2.2k
Q831
IMZ1A
DC-BUFFER
OSDON
C881 100/10
C882 100/10
R882 0
CN804
KP200TA11L
FV Y
2296-5
2296-2
2296-3
2296-4
FV C
OSD ON
OSDOUT
V-5.6V
V+5.6V
VG

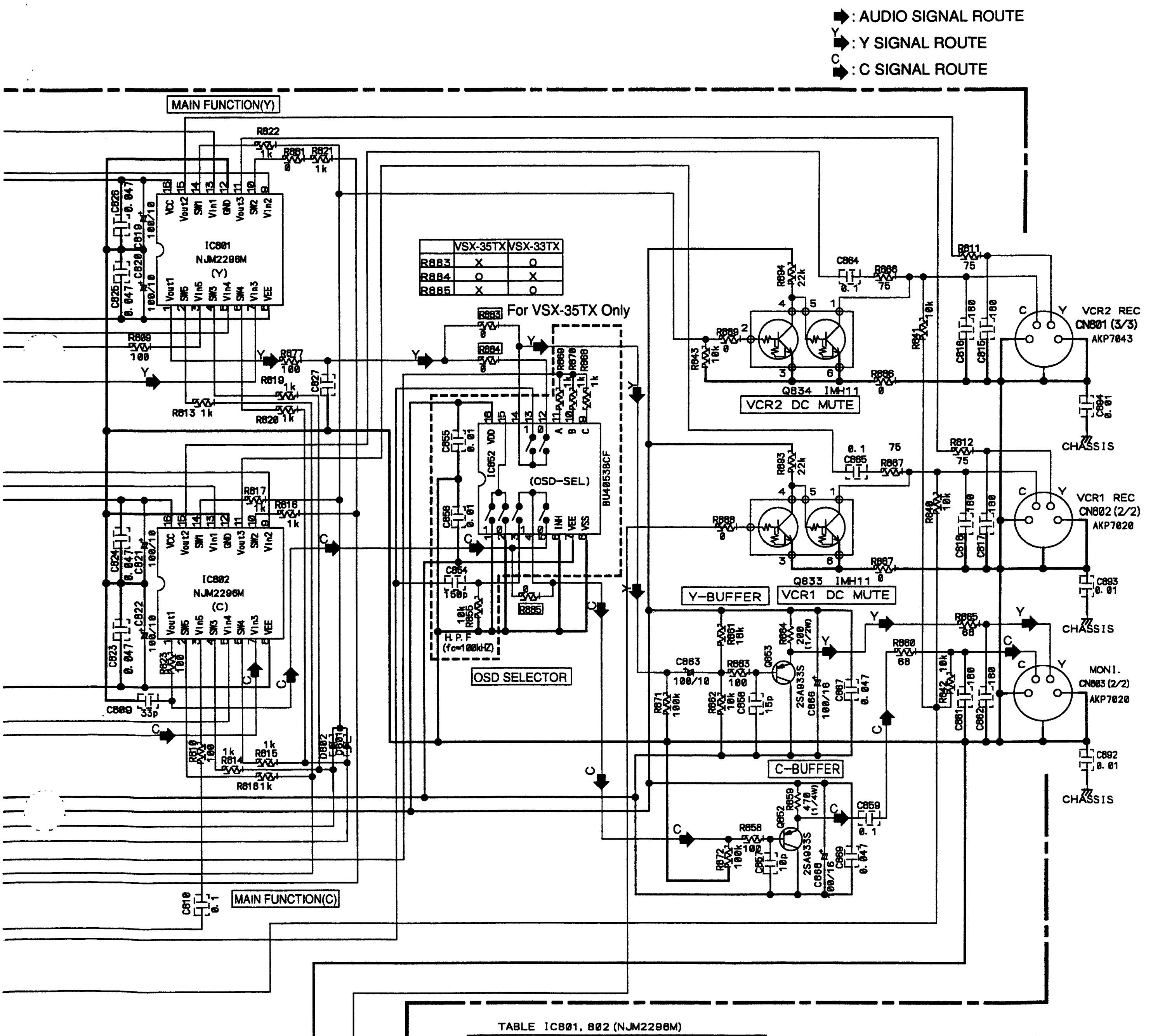

: AUDIO SIGNAL ROUTE
Y : Y SIGNAL ROUTE
C : C SIGNAL ROUTE
MAIN FUNCTION(Y)
IC801 NJM2296M (Y)
MAIN FUNCTION(C)
IC802 NJM2296M (C)
VSX-35TX VSX-33TX
R883 X O
R884 O X
R885 X O
For VSX-35TX Only
IC852 BU4053BCF
(OSD-SEL)
H.P.F (fc=100kHZ)
OSD SELECTOR
Q834 IMH11
VCR2 DC MUTE
Q833 IMH11
VCR1 DC MUTE
Y-BUFFER
C-BUFFER
Q853 2SA933S
Q852 2SA933S
VCR2 REC CN801 (3/3) AKP7043
VCR1 REC CN802 (2/2) AKP7020
MONI. CN803 (2/2) AKP7020
CHASSIS

TABLE IC801, 802 (NJM2296M)

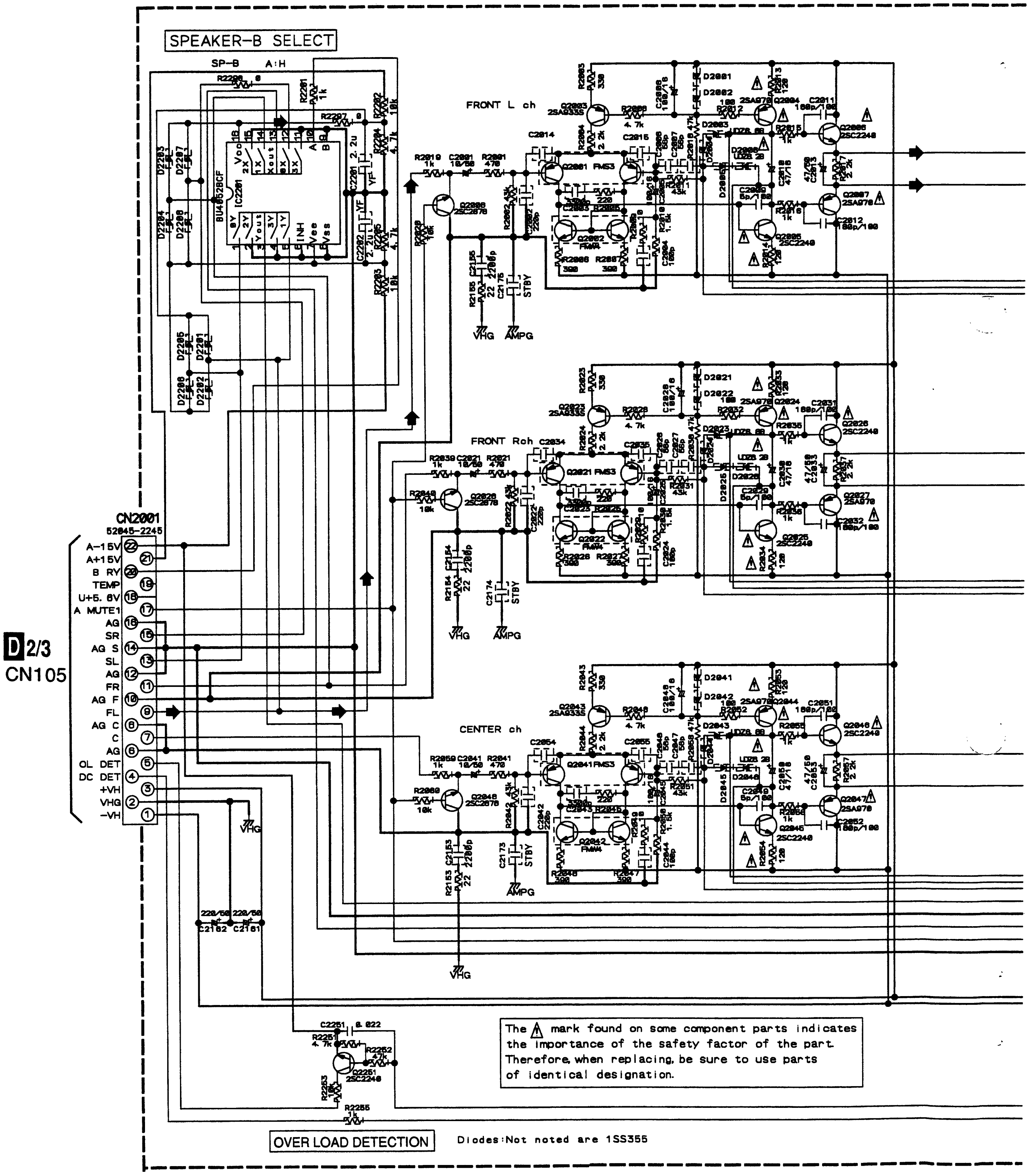
SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)	
0	1	(0)	(0)	1	Vin1	Mute	Vin1	Vin1=VCR2
1	0	(1)	0	1	Vin2	Vin2	Mute	Vin2=VCR1
1	1	(1)	0	1	Vin3	Vin3	Vin3	Vin3=DVD/LD
1	1	0	1	1	Vin4	Vin4	Vin4	Vin4=TV/SAT
1	1	1	1	1	Vin5	Vin5	Vin5	Vin5=VIDEO
0	0	0	0	0	Mute	Mute	Mute	AUDIO FUNC.

(SW1=SW3*SW4)

TABLE IC831 (BU4051BCF)

A (SW2)	B (SW3)	C (SW4)	INH	OUT	
0	0	0	0	AUDIO	13p
1	0	0	0	VCR2	14p
0	1	0	0	VCR1	15p
1	1	0	0	DVD/LD	12p
0	0	1	0		1p
1	0	1	0	TV/SAT	5p
0	1	1	0		2p
1	1	1	0	FV	4p
*	*	*	1		

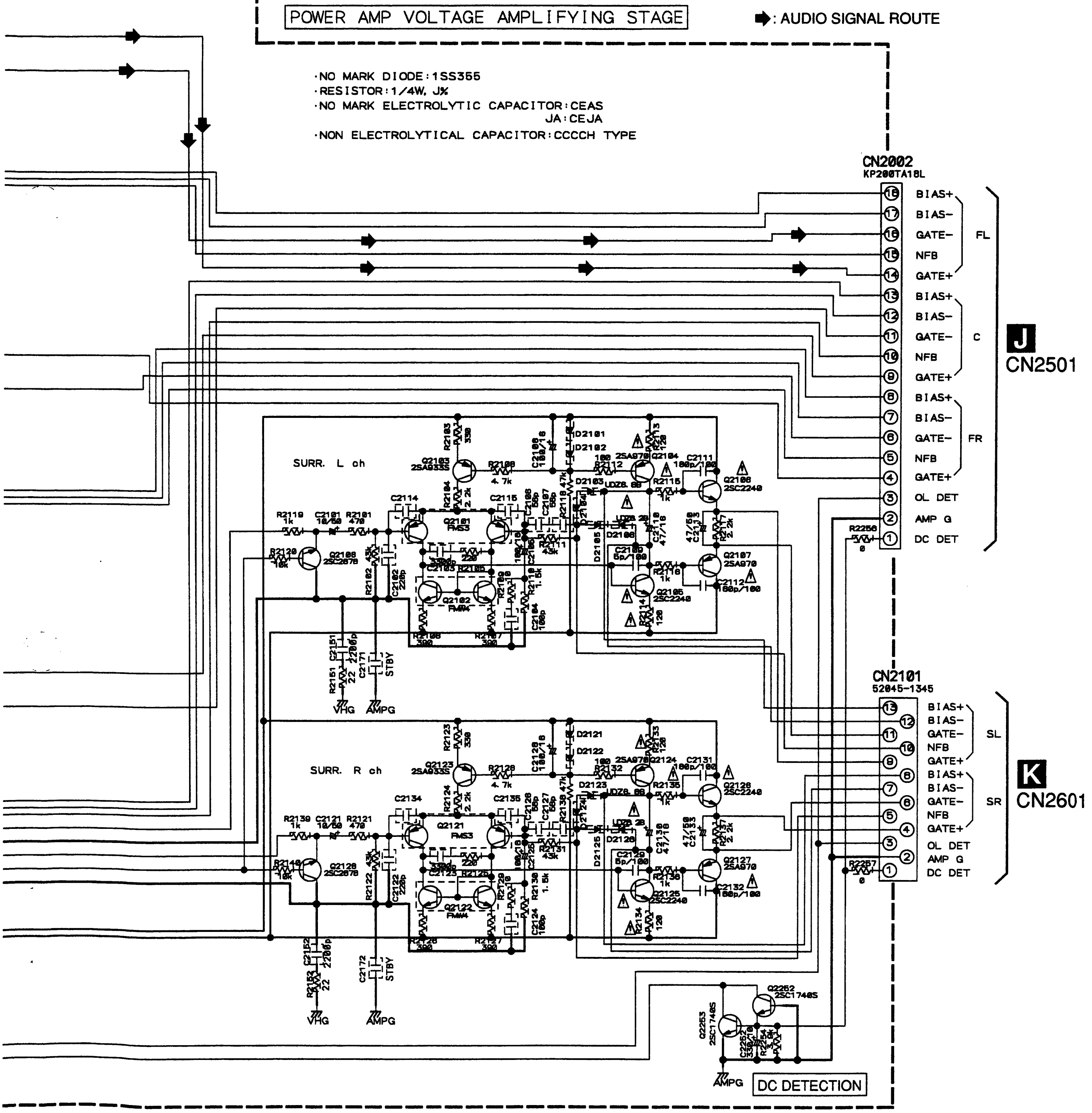
3.12 V-AMP ASSY


SPEAKER-B SELECT
SP-B A:H
R2208
R2201 1k
R2207
R2202 10k
R2204 4.7k
R2205 4.7k
R2203 10k
C2201 2.2u
C2202 2.2u
IC2201
BU4052BCF
D2203
D2207
D2204
D2208
D2205
D2201
D2206
D2202
FRONT L ch
FRONT Rch
CENTER ch
R2003 330
Q2003 2SA933S
R2008 4.7k
C2006 100/16
D2001
D2002
R2012 100
2SA970 Q2004
R2013 120
C2011 100p/100
Q2006 2SC2240
C2014
C2015
R2004 2.2k
R2019 1k
C2001 10/50
R2001 470
Q2001 FMS3
Q2002 FMW4
Q2008 2SC2878
R2020 10k
R2002 43k
C2002 220p
R2006 390
R2007 390
R2010 1.5k
C2004 100p
C2155 2200p
R2155 22
C2175
STBY
VHG
AMPG
D2003
UDZ6.6B
R2015
R2017 2.2k
C2018 47/16
C2013 47/50
C2009 5p/100
R2016 1k
Q2005 2SC2240
Q2007 2SA970
C2012 100p/100
R2014 120
Q2023 2SA933S
Q2021 FMS3
Q2022 FMW4
Q2028 2SC2878
Q2024
Q2026 2SC2240
Q2027 2SA970
Q2025 2SC2240
Q2043 2SA933S
Q2041 FMS3
Q2042 FMW4
Q2048 2SC2878
Q2044
Q2046 2SC2240
Q2047 2SA970
Q2045 2SC2240
CN2001
52045-2245
A-15V ㉒
A+15V ㉑
B RY ⑳
TEMP ⑲
U+5.6V ⑱
A MUTE1 ⑰
AG ⑯
SR ⑮
AG S ⑭
SL ⑬
AG ⑫
FR ⑪
AG F ⑩
FL ⑨
AG C ⑧
C ⑦
AG ⑥
OL DET ⑤
DC DET ④
+VH ③
VHG ②
-VH ①
D2/3
CN105
220/50 220/50
C2162 C2161
C2251 0.022
R2251 4.7k
R2252 47k
Q2251 2SC2240
R2253 10k
R2255 1k
OVER LOAD DETECTION

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Diodes:Not noted are 1SS355

I V-AMP ASSY (AWX7578)



POWER AMP VOLTAGE AMPLIFYING STAGE

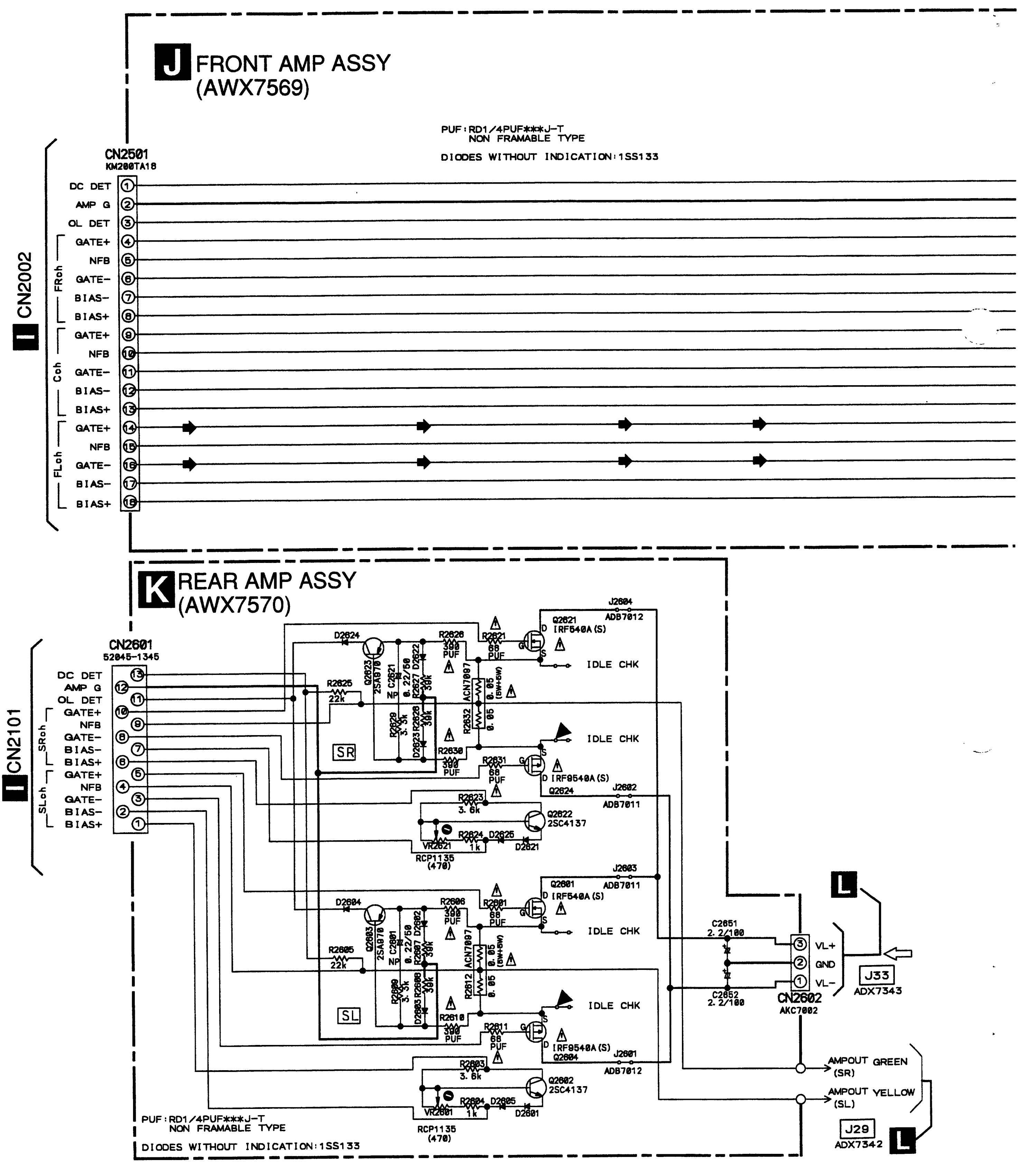
➡: AUDIO SIGNAL ROUTE

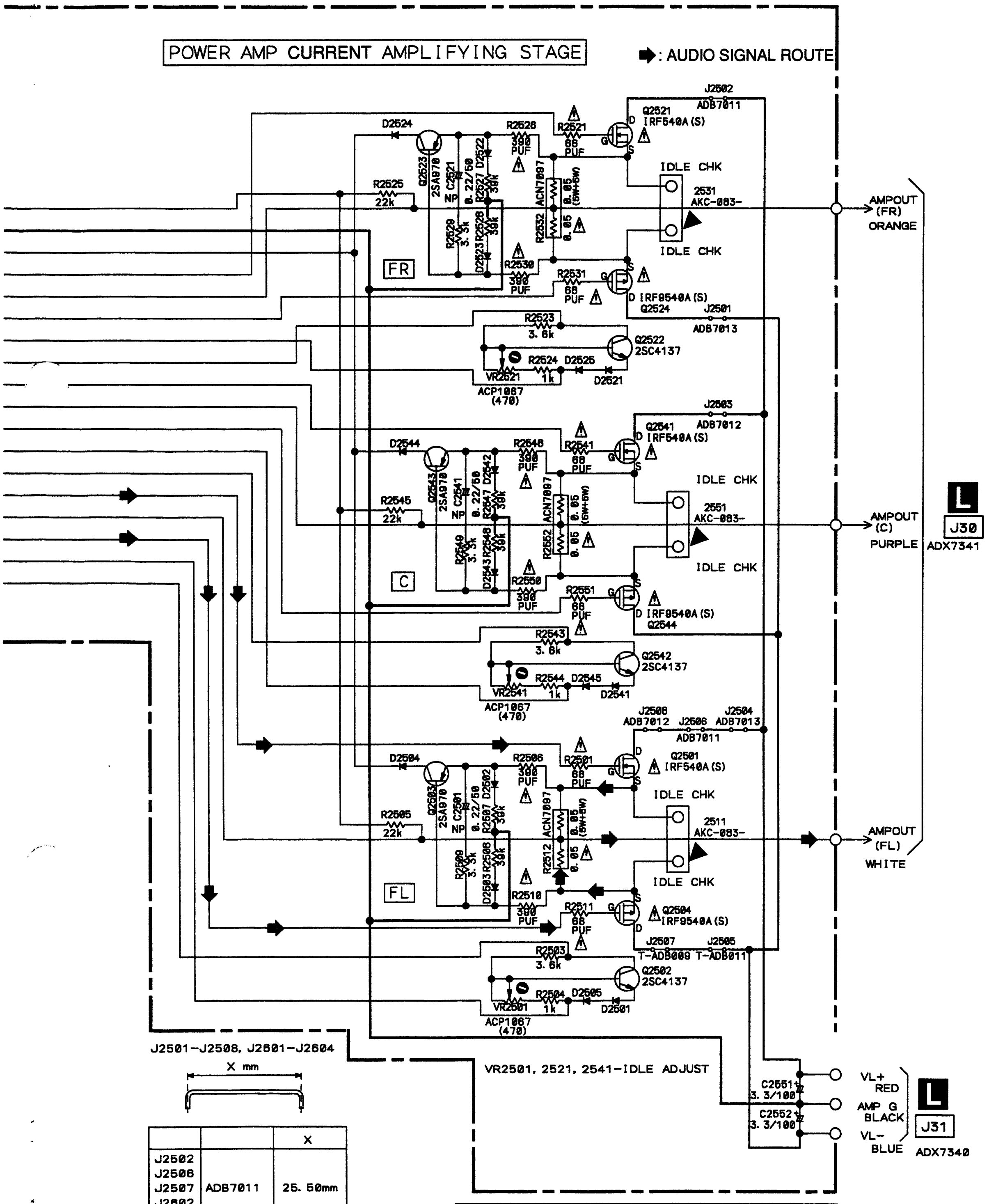
- ·NO MARK DIODE:1SS355
- ·RESISTOR:1/4W, J%
- ·NO MARK ELECTROLYTIC CAPACITOR:CEAS
  JA:CEJA
- ·NON ELECTROLYTICAL CAPACITOR:CCCCH TYPE

DC DETECTION

CN2002
KP200TA18L
18 BIAS+
17 BIAS-
16 GATE-
15 NFB
14 GATE+
FL
13 BIAS+
12 BIAS-
11 GATE-
10 NFB
9 GATE+
C
8 BIAS+
7 BIAS-
6 GATE-
5 NFB
4 GATE+
FR
3 OL DET
2 AMP G
1 DC DET
J
CN2501
SURR. L ch
SURR. R ch
CN2101
52045-1345
13 BIAS+
12 BIAS-
11 GATE-
10 NFB
9 GATE+
8 BIAS+
7 BIAS-
6 GATE-
5 NFB
4 GATE+
SL
SR
3 OL DET
2 AMP G
1 DC DET
K
CN2601
Q2103 2SA933S
Q2101 FMS3
Q2102 FMW4
Q2100 2SC2878
Q2104 2SA970
Q2106 2SC2240
Q2107 2SA970
Q2105 2SC2240
Q2123 2SA933S
Q2121 FMS3
Q2122 FMW4
Q2120 2SC2878
Q2124 2SA970
Q2126 2SC2240
Q2127 2SA970
Q2125 2SC2240
Q2252 2SC1740S
Q2253 2SC1740S
D2101
D2102
D2103
D2105
D2106
D2121
D2122
D2123
D2125
D2126
UDZ6.8B
UDZ6.8B
R2250 0
R2257 0
STBY
STBY
VHG
AMPG
VHG
AMPG
AMPG

3.13 FRONT AMP and REAR AMP ASSYS

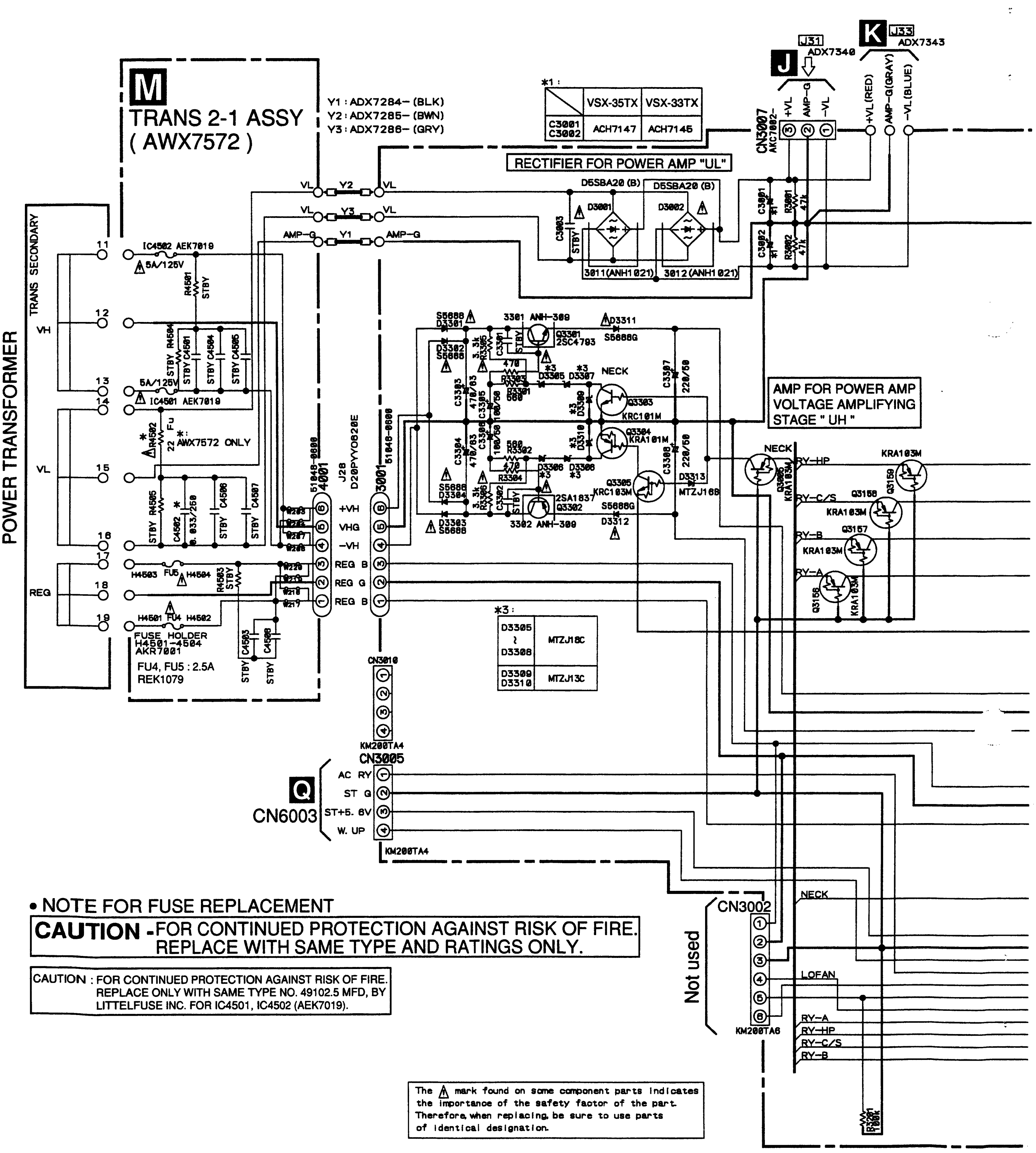

A
B
C
D
J FRONT AMP ASSY
(AWX7569)
PUF: RD1/4PUF✱✱✱J-T
NON FRAMABLE TYPE
DIODES WITHOUT INDICATION: 1SS133
CN2501
KM200TA18
I CN2002
DC DET ①
AMP G ②
OL DET ③
FRch
GATE+ ④
NFB ⑤
GATE− ⑥
BIAS− ⑦
BIAS+ ⑧
Cch
GATE+ ⑨
NFB ⑩
GATE− ⑪
BIAS− ⑫
BIAS+ ⑬
FLch
GATE+ ⑭
NFB ⑮
GATE− ⑯
BIAS− ⑰
BIAS+ ⑱
K REAR AMP ASSY
(AWX7570)
CN2601
52045-1345
I CN2101
DC DET ⑬
AMP G ⑫
OL DET ⑪
SRch
GATE+ ⑩
NFB ⑨
GATE− ⑧
BIAS− ⑦
BIAS+ ⑥
SLch
GATE+ ⑤
NFB ④
GATE− ③
BIAS− ②
BIAS+ ①
D2624
Q2623 2SA970
C2621 NP
R2627 0.22/50
D2622
39k
R2625 22k
R2629 3.3k
R2628 39k
D2623
R2626 390 PUF
R2621 68 PUF
ACN7097
R2632
0.05 (5W+5W)
0.05
R2630 390 PUF
R2631 68 PUF
SR
J2604
ADB7012
Q2621
IRF540A(S)
IDLE CHK
IDLE CHK
IRF9540A(S)
Q2624
J2602
ADB7011
R2623 3.6k
Q2622
2SC4137
R2624 1k
D2625
VR2621
D2621
RCP1135
(470)
J2603
ADB7011
Q2601
IRF540A(S)
D2604
Q2603 2SA970
C2601 NP
R2607 0.22/50
D2602
39k
R2605 22k
R2609 3.3k
R2608 39k
D2603
R2606 390 PUF
R2601 68 PUF
ACN7097
R2612
0.05 (5W+5W)
0.05
R2610 390 PUF
R2611 68 PUF
SL
IDLE CHK
IDLE CHK
IRF9540A(S)
Q2604
J2601
ADB7012
R2603 3.6k
Q2602
2SC4137
R2604 1k
D2605
VR2601
D2601
RCP1135
(470)
C2651
2.2/100
C2652
2.2/100
③ VL+
② GND
① VL−
CN2602
AKC7002
L
J33
ADX7343
AMPOUT GREEN (SR)
AMPOUT YELLOW (SL)
J29
ADX7342
L
PUF: RD1/4PUF✱✱✱J-T
NON FRAMABLE TYPE
DIODES WITHOUT INDICATION: 1SS133


POWER AMP CURRENT AMPLIFYING STAGE
➡: AUDIO SIGNAL ROUTE
J2502 ADB7011
Q2521 IRF540A(S)
D2524
R2526 390 PUF
R2521 68 PUF
Q2523 2SA970
C2521 NP 0.22/50
R2527 39k
D2522
R2525 22k
ACN7097
0.05 (5W+5W)
R2532
IDLE CHK
2531 AKC-083-
AMPOUT (FR) ORANGE
R2529 3.3k
R2528 39k
D2523
FR
R2530 390 PUF
R2531 68 PUF
IRF9540A(S) Q2524
J2501 ADB7013
R2523 3.6k
Q2522 2SC4137
R2524 1k
D2525
D2521
VR2521 ACP1067 (470)
J2503 ADB7012
Q2541 IRF540A(S)
D2544
R2546 390 PUF
R2541 68 PUF
Q2543 2SA970
C2541 NP 0.22/50
R2547 39k
D2542
R2545 22k
R2552
2551 AKC-083-
AMPOUT (C) PURPLE
R2549 3.3k
R2548 39k
D2543
C
R2550 390 PUF
R2551 68 PUF
IRF9540A(S) Q2544
R2543 3.6k
Q2542 2SC4137
R2544 1k
D2545
D2541
VR2541 ACP1067 (470)
L J30 ADX7341
J2508 ADB7012
J2506 ADB7011
J2504 ADB7013
Q2501 IRF540A(S)
D2504
R2506 390 PUF
R2501 68 PUF
Q2503 2SA970
C2501 NP 0.22/50
R2507 39k
D2502
R2505 22k
R2512
2511 AKC-083-
AMPOUT (FL) WHITE
R2509 3.3k
R2508 39k
D2503
FL
R2510 390 PUF
R2511 68 PUF
Q2504 IRF9540A(S)
J2507 T-ADB009
J2505 T-ADB011
R2503 3.6k
Q2502 2SC4137
R2504 1k
D2505
D2501
VR2501 ACP1067 (470)
J2501–J2508, J2801–J2604
X mm
VR2501, 2521, 2541–IDLE ADJUST
C2551 3.3/100
C2552 3.3/100
VL+ RED
AMP G BLACK
VL– BLUE
L J31 ADX7340

		X
J2502 J2506 J2507 J2802 J2803	ADB7011	25.50mm
J2503 J2508	ADB7012	58.00mm
J2501 J2504 J2505 J2601 J2604	ADB7013	70.00mm

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.14 SP/PS and TRANS 2-1 ASSYS


A
B
C
D
M
TRANS 2-1 ASSY
(AWX7572)
POWER TRANSFORMER
TRANS SECONDARY
VH
VL
REG
11
12
13
14
15
16
17
18
19
IC4502 AEK7019
5A/125V
R4501 STBY
STBY R4504
STBY C4501
STBY C4504
STBY C4505
5A/125V
IC4501 AEK7019
R4502 22 Fu
*: AWX7572 ONLY
STBY R4505
C4502 0.033/250
STBY C4506
STBY C4507
H4503 FU5 H4504
R4503 STBY
H4501 FU4 H4502
FUSE HOLDER
H4501-4504
AKR7001
FU4, FU5 : 2.5A
REK1079
STBY C4503
STBY C4508
Y1 : ADX7284- (BLK)
Y2 : ADX7285- (BWN)
Y3 : ADX7286- (GRY)
VL Y2 VL
VL Y3 VL
AMP-G Y1 AMP-G
51048-0600
4001
J28
D20PYY0620E
3001
51048-0600
+VH
VHG
-VH
REG B
REG G
REG B
W203
W205
W207
W206
W220
W219
W218
W217
RECTIFIER FOR POWER AMP "UL"
D5SBA20 (B)
D5SBA20 (B)
D3001
D3002
C3003 STBY
3011(ANH1021)
3012(ANH1021)
C3001
C3002
R3001 47k
R3002 47k
CN3007
AKC7002-
+VL
AMP-G
-VL
J
J31
ADX7340
K
J33
ADX7343
+VL(RED)
AMP-G(GRAY)
-VL(BLUE)
S5688 D3301
3301 ANH-309
D3311
S5688G
Q3301
2SC4793
D3302 S5688
R3305 3.3k
C3301
STBY
470
R3303
D3305 D3307
NECK
C3303 470/63
C3305 100/50
Q3301 560
D3309
Q3303
KRC101M
C3307 220/50
D3310
Q3304
KRA101M
C3304 470/63
C3306 100/50
560 R3302
470
D3306 D3308
C3308 220/50
D3313
MTZJ168
R3304
Q3305
KRC103M
S5688 D3304
R3306 3.3k
C3302 STBY
2SA1837
Q3302
S5688G
D3303 S5688
3302 ANH-309
D3312
AMP FOR POWER AMP
VOLTAGE AMPLIFYING
STAGE " UH "
NECK
Q3006 KRA103M
RY-HP
KRA103M
Q3159
RY-C/S
Q3158
KRA103M
RY-B
Q3157
KRA103M
RY-A
Q3156
KRA103M
CN3010
KM200TA4
CN3005
Q
CN6003
AC RY
ST G
ST+5. 6V
W. UP
KM200TA4
CN3002
Not used
KM200TA6
NECK
LOFAN
RY-A
RY-HP
RY-C/S
RY-B
R3301 100k

*1 :

	VSX-35TX	VSX-33TX
C3001 C3002	ACH7147	ACH7145

*3 :

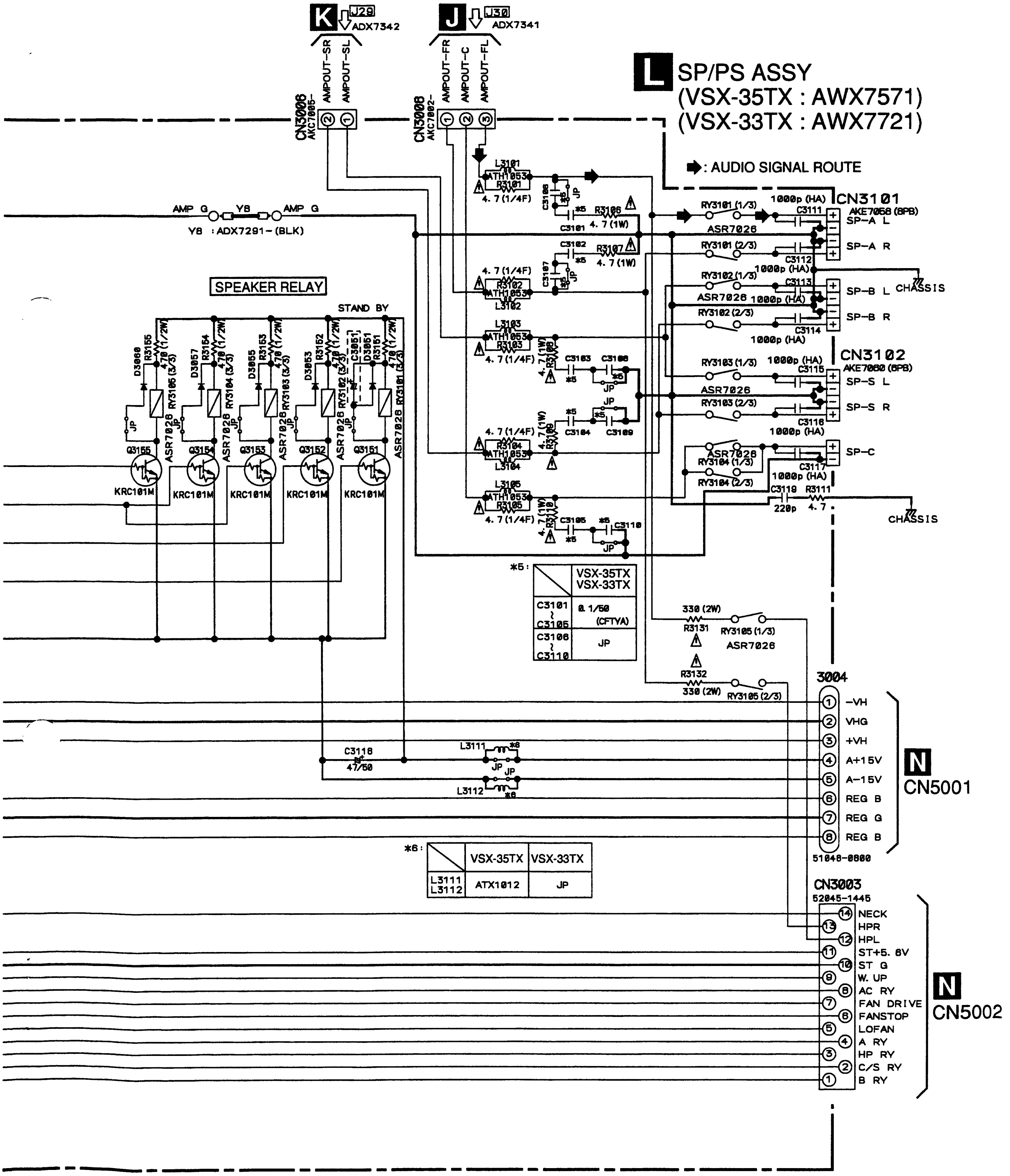
D3305 ~ D3308	MTZJ18C
D3309 D3310	MTZJ13C

• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY
LITTELFUSE INC. FOR IC4501, IC4502 (AEK7019).

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.


K J29 ADX7342
J J30 ADX7341
AMPOUT-SR
AMPOUT-SL
AMPOUT-FR
AMPOUT-C
AMPOUT-FL
CN3006 AKC7005-
CN3008 AKC7002-
L SP/PS ASSY
(VSX-35TX : AWX7571)
(VSX-33TX : AWX7721)
: AUDIO SIGNAL ROUTE
AMP G
Y8
Y8 : ADX7291-(BLK)
SPEAKER RELAY
STAND BY
L3101 ATH1053 R3101 4.7(1/4F)
L3102 ATH1053 R3102 4.7(1/4F)
L3103 ATH1053 R3103 4.7(1/4F)
L3104 ATH1053 R3104 4.7(1/4F)
L3105 ATH1053 R3105 4.7(1/4F)
R3106 4.7(1W)
R3107 4.7(1W)
R3108 4.7(1W)
R3109 4.7(1W)
R3110 4.7(1W)
C3101 C3102 C3103 C3104 C3105
C3106 C3107 C3108 C3109 C3110
JP
*5
RY3101 (1/3)
RY3101 (2/3)
RY3102 (1/3)
RY3102 (2/3)
RY3103 (1/3)
RY3103 (2/3)
RY3104 (1/3)
RY3104 (2/3)
ASR7026
1000p (HA)
C3111 C3112 C3113 C3114 C3115 C3116 C3117
CN3101 AKE7058 (8PB)
SP-A L
SP-A R
SP-B L
SP-B R
CHASSIS
CN3102 AKE7060 (6PB)
SP-S L
SP-S R
SP-C
C3119 220p
R3111 4.7
R3155 R3154 R3153 R3152 R3151 470 (1/2W)
D3060 D3057 D3055 D3053 D3051
C3051 NF
RY3105 (3/3) RY3104 (3/3) RY3103 (3/3) RY3102 (3/3) RY3101 (3/3)
ASR7026
Q3155 Q3154 Q3153 Q3152 Q3151
KRC101M
R3131 330 (2W)
RY3105 (1/3)
ASR7026
R3132 330 (2W)
RY3105 (2/3)
3004
① -VH
② VHG
③ +VH
④ A+15V
⑤ A-15V
⑥ REG B
⑦ REG G
⑧ REG B
51048-0800
N CN5001
C3118 47/50
L3111 *6
L3112 *6
JP
CN3003
52045-1445
⑭ NECK
⑬ HPR
⑫ HPL
⑪ ST+5.6V
⑩ ST G
⑨ W. UP
⑧ AC RY
⑦ FAN DRIVE
⑥ FANSTOP
⑤ LOFAN
④ A RY
③ HP RY
② C/S RY
① B RY
N CN5002

*5:

	VSX-35TX VSX-33TX
C3101 ~ C3105	0.1/50 (CFTYA)
C3106 ~ C3110	JP

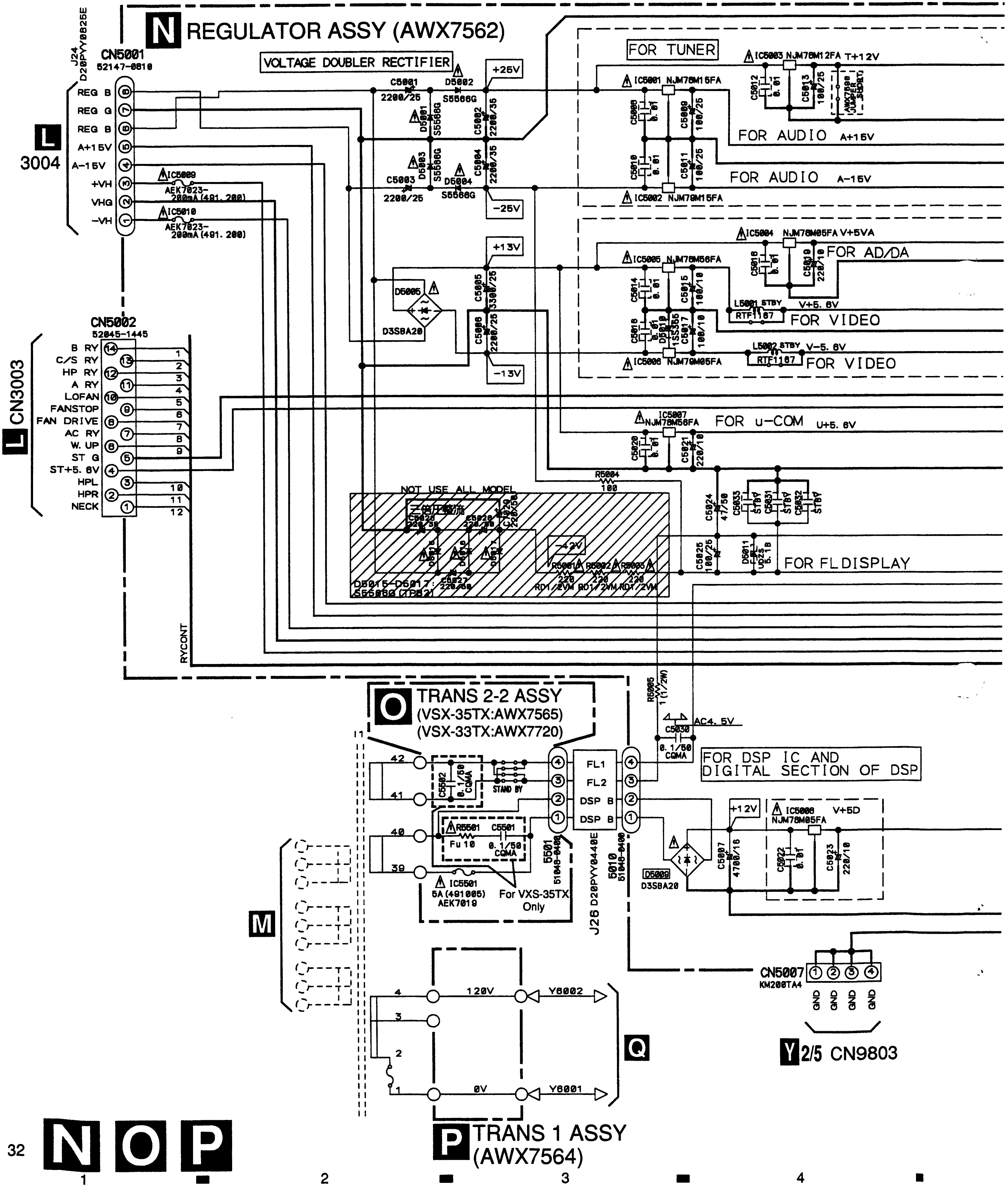
*6:

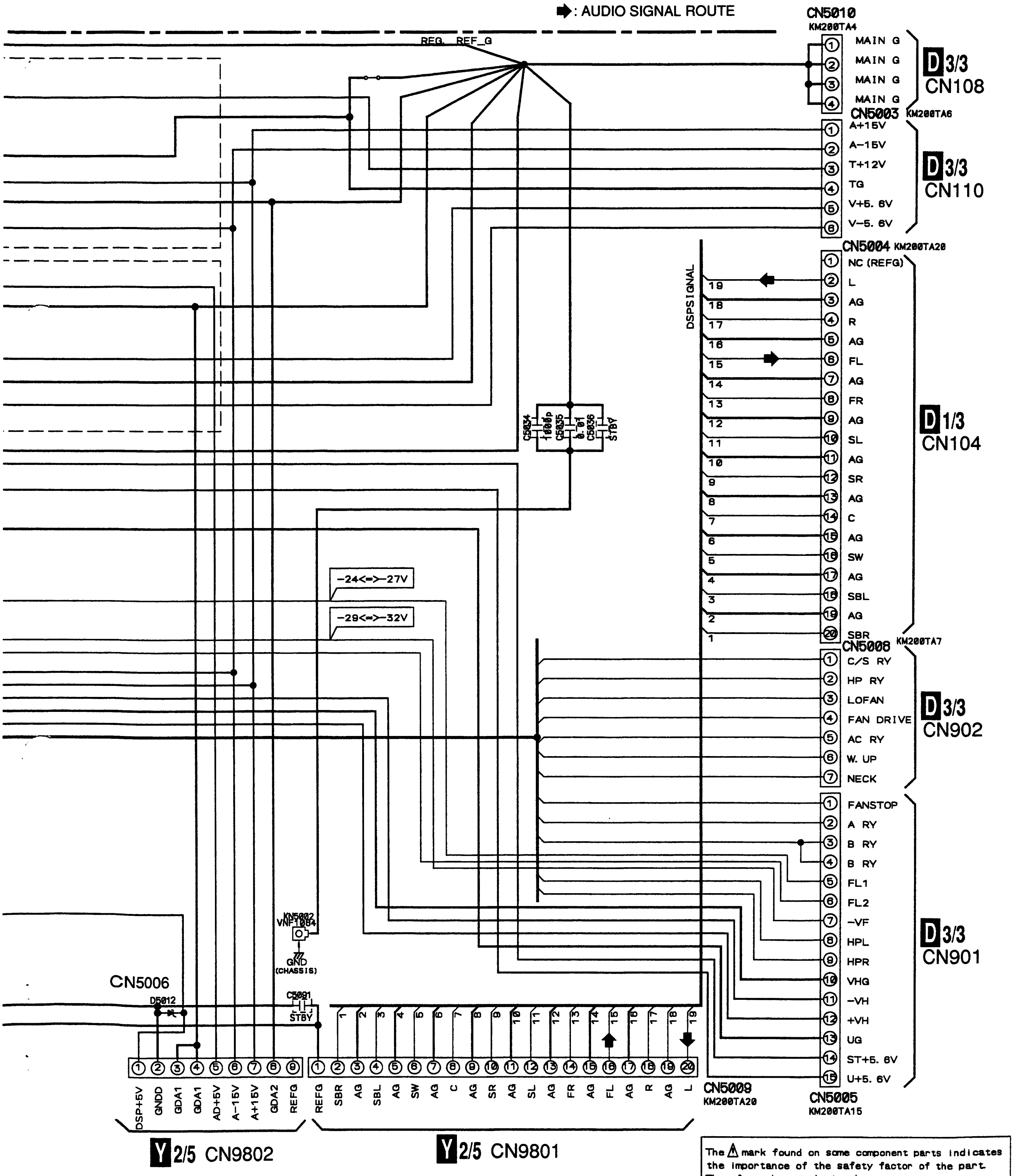
	VSX-35TX	VSX-33TX
L3111 L3112	ATX1012	JP

3.15 REGULATOR, TRANS 2-2 and TRANS 1 ASSYS

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INC. FOR IC5009, IC5010 (AEK7023).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491005 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7019).

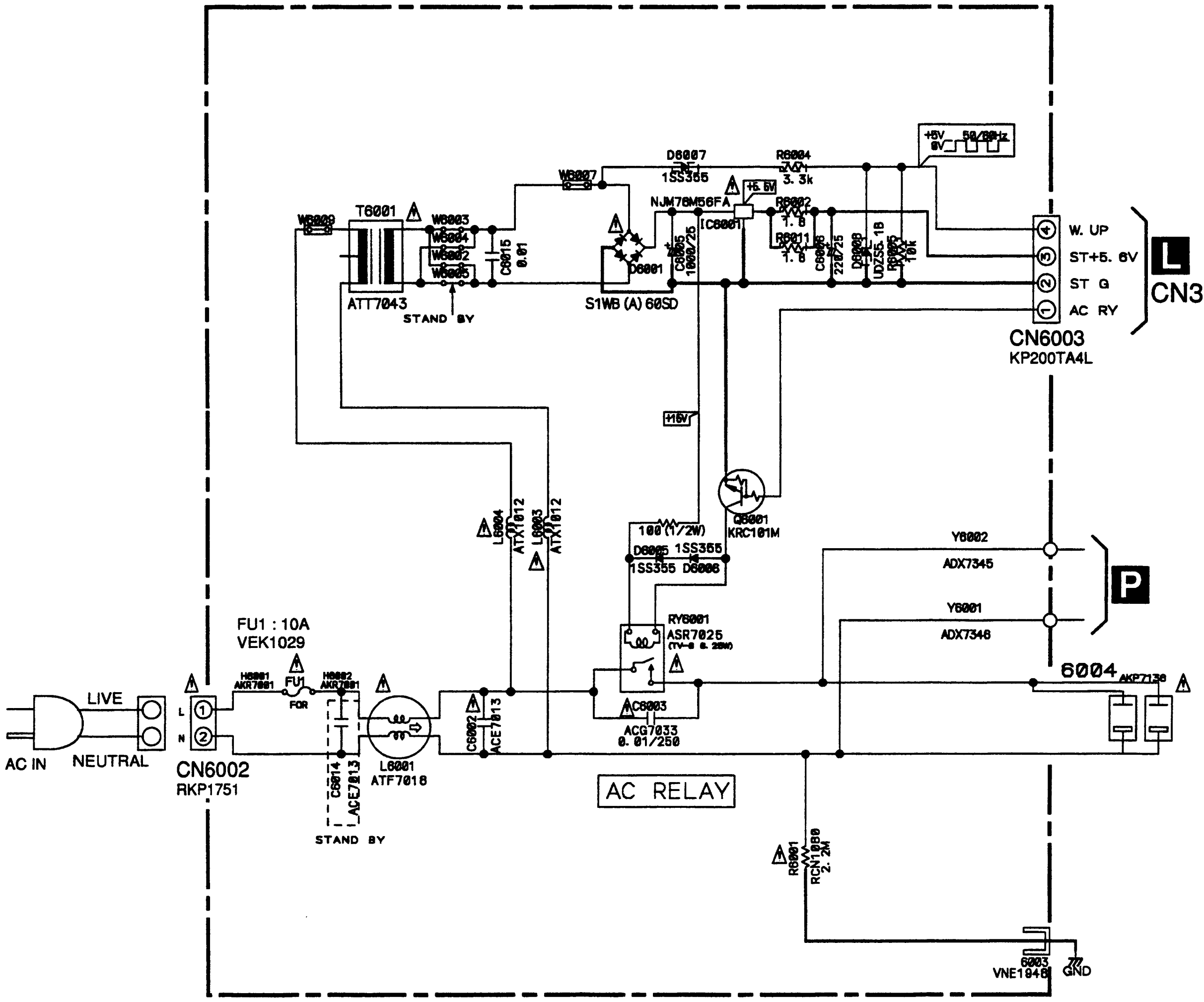

N REGULATOR ASSY (AWX7562)
J24 D20PYY0825E
CN5001 52147-0810
REG B 8
REG G 7
REG B 6
A+15V 5
A-15V 4
+VH 3
VHG 2
-VH 1
L 3004
IC5009 AEK7023-200mA (491.200)
IC5010 AEK7023-200mA (491.200)
VOLTAGE DOUBLER RECTIFIER
C5001 2200/25
D5002 S5566G
D5001 S5566G
C5002 2200/35
D5003 S5566G
C5004 2200/35
C5003 2200/25
D5004 S5566G
+25V
-25V
+13V
-13V
D5005 D3SBA20
C5005 3300/25
C5006 2200/25
FOR TUNER
IC5003 NJM78M12FA T+12V
C5012 0.01
C5013 100/25
AWX7590 JUMPER SHORT
IC5001 NJM78M15FA
C5008 0.01
C5009 100/25
FOR AUDIO A+15V
C5010 0.01
C5011 100/25
FOR AUDIO A-15V
IC5002 NJM79M15FA
IC5004 NJM78M05FA V+5VA
C5018 0.01
C5019 220/10
FOR AD/DA
IC5005 NJM78M56FA
C5014 0.01
C5015 100/10
L5001 STBY RTF1167
V+5.6V
FOR VIDEO
C5016 0.01
D5010 1SS355
C5017 100/10
IC5006 NJM79M05FA
L5002 STBY RTF1167
V-5.6V
FOR VIDEO
CN5002 52045-1445
B RY 14
C/S RY 13
HP RY 12
A RY 11
LOFAN 10
FANSTOP 9
FAN DRIVE 8
AC RY 7
W. UP 6
ST G 5
ST+5.6V 4
HPL 3
HPR 2
NECK 1
1 2 3 4 5 6 7 8 9 10 11 12
L CN3003
IC5007 NJM78M56FA
FOR u-COM U+5.6V
C5020 0.01
C5021 220/10
R5004 100
NOT USE ALL MODEL
三倍圧整流
C5028 220/50
C5029 220/50
C5026 220/50
D5015 D5016 D5017
C5027 220/50
D5015-D5017: S5566G (TPB2)
-42V
R5001 220 RD1/2VM
R5002 220 RD1/2VM
R5003 220 RD1/2VM
C5024 47/50
C5033 STBY
C5031 STBY
C5032 STBY
C5025 100/25
D5011 UDZS 5.1B
FOR FL DISPLAY
RYCONT
R5005 1 (1/2W)
AC4.5V
C5030 0.1/50 CQMA
O TRANS 2-2 ASSY (VSX-35TX:AWX7565) (VSX-33TX:AWX7720)
11
42
41
40
39
C5502 0.1/50 CQMA
STAND BY
R5501 Fu 10
C5501 0.1/50 CQMA
IC5501 5A (491005) AEK7019
For VXS-35TX Only
5501 51048-0400
FL1
FL2
DSP B
DSP B
J26 D20PYY0440E
5010 51048-0400
FOR DSP IC AND DIGITAL SECTION OF DSP
+12V
D5009 D3SBA20
C5007 4700/16
IC5008 NJM78M05FA V+5D
C5022 0.01
C5023 220/10
M
CN5007 KM200TA4
1 2 3 4
GND GND GND GND
Y 2/5 CN9803
4
3
2
1
120V
0V
Y6002
Y6001
Q
P TRANS 1 ASSY (AWX7564)


: AUDIO SIGNAL ROUTE
REG. REF_G
CN5010
KM200TA4
① MAIN G
② MAIN G
③ MAIN G
④ MAIN G
D 3/3
CN108
CN5003 KM200TA6
① A+15V
② A-15V
③ T+12V
④ TG
⑤ V+5. 6V
⑥ V-5. 6V
D 3/3
CN110
CN5004 KM200TA20
① NC (REFG)
② L
③ AG
④ R
⑤ AG
⑥ FL
⑦ AG
⑧ FR
⑨ AG
⑩ SL
⑪ AG
⑫ SR
⑬ AG
⑭ C
⑮ AG
⑯ SW
⑰ AG
⑱ SBL
⑲ AG
⑳ SBR
D 1/3
CN104
DSPSIGNAL
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
C5034
1000p
C5035
0.01
C5036
STBY
-24<=>-27V
-29<=>-32V
CN5008 KM200TA7
① C/S RY
② HP RY
③ LOFAN
④ FAN DRIVE
⑤ AC RY
⑥ W. UP
⑦ NECK
D 3/3
CN902
① FANSTOP
② A RY
③ B RY
④ B RY
⑤ FL1
⑥ FL2
⑦ -VF
⑧ HPL
⑨ HPR
⑩ VHG
⑪ -VH
⑫ +VH
⑬ UG
⑭ ST+5. 6V
⑮ U+5. 6V
D 3/3
CN901
CN5005
KM200TA15
KN5002
VNF1084
GND
(CHASSIS)
CN5006
D5012
C5091
STBY
① DSP+5V
② GNDD
③ GDA1
④ GDA1
⑤ AD+5V
⑥ A-15V
⑦ A+15V
⑧ GDA2
⑨ REFG
① REFG
② SBR
③ AG
④ SBL
⑤ AG
⑥ SW
⑦ AG
⑧ C
⑨ AG
⑩ SR
⑪ AG
⑫ SL
⑬ AG
⑭ FR
⑮ AG
⑯ FL
⑰ AG
⑱ R
⑲ AG
⑳ L
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 17 18 19
CN5009
KM200TA20
Y 2/5 CN9802
Y 2/5 CN9801

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.16 PRIMARY ASSY

Q PRIMARY ASSY (AWX7563)


W6009
T6001
ATT7043
W6003
W6004
W6002
W6005
STAND BY
C6015 0.01
W6007
D6007 1SS355
R6004 3.3k
+5V 0V 50/60Hz
NJM78M56FA
+5.6V
IC6001
R6002 1.8
R6011 1.8
D6001
S1WB (A) 60SD
C6005 1000/25
C6006 220/25
D6008 UDZS5.1B
R6005 10k
4 W. UP
3 ST+5.6V
2 ST G
1 AC RY
CN6003
KP200TA4L
L
CN3005
+15V
L6004 ATX1012
L6003 ATX1012
100 (1/2W)
D6005 1SS355
1SS355 D6006
Q6001 KRC101M
Y6002 ADX7345
Y6001 ADX7346
P
RY6001 ASR7025 (TV-8 0.25W)
C6003 ACG7033 0.01/250
6004 AKP7136
FU1 : 10A
VEK1029
LIVE
NEUTRAL
AC IN
L 1
N 2
CN6002
RKP1751
H6001 AKR7001
FU1 FOR
H6002 AKR7001
C6014 ACE7013
STAND BY
L6001 ATF7018
C6002 ACE7013
AC RELAY
R6001 RCN1080 2.2M
6003 VNE1948
GND

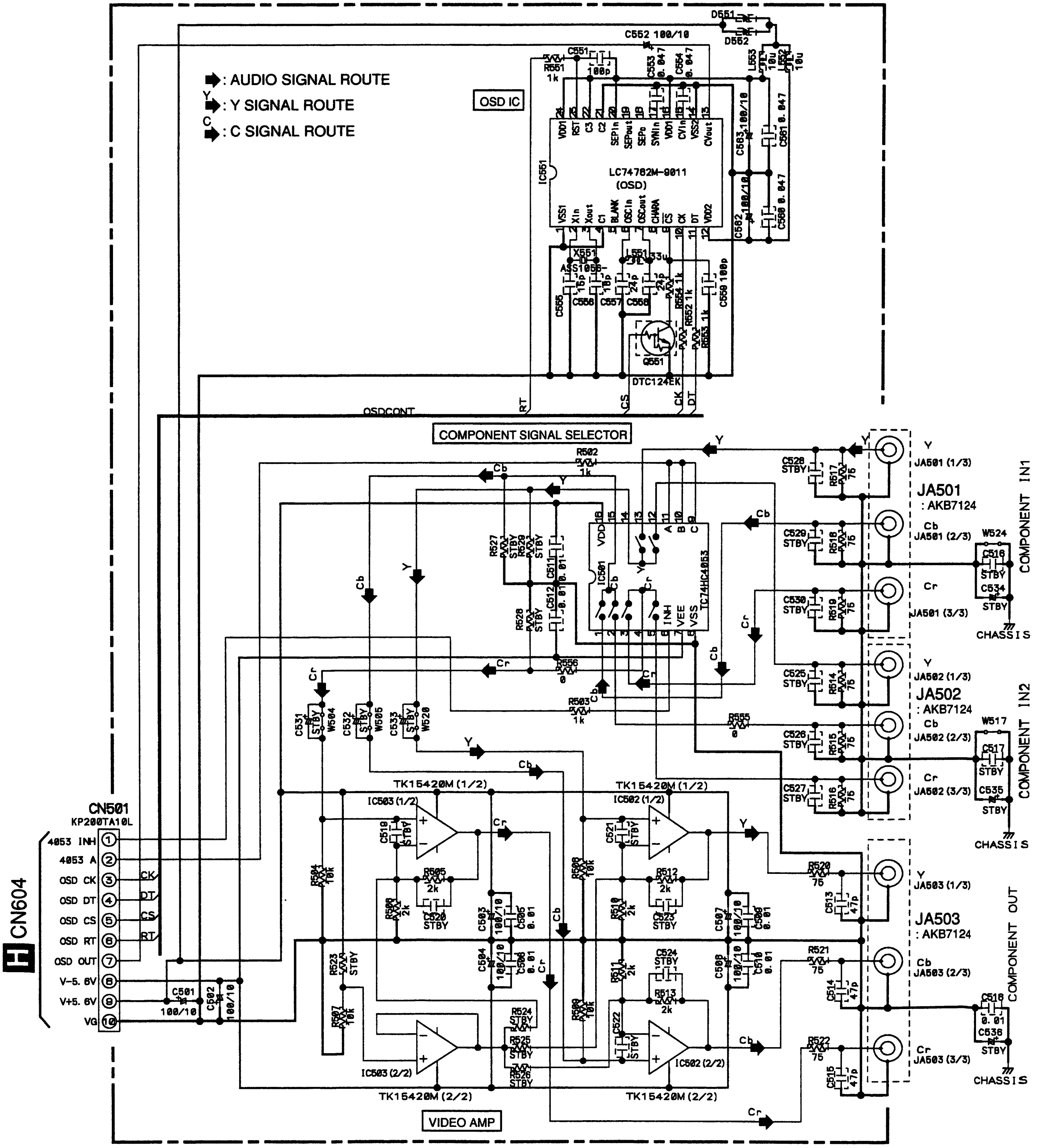
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- NOTE FOR FUSE REPLACEMENT

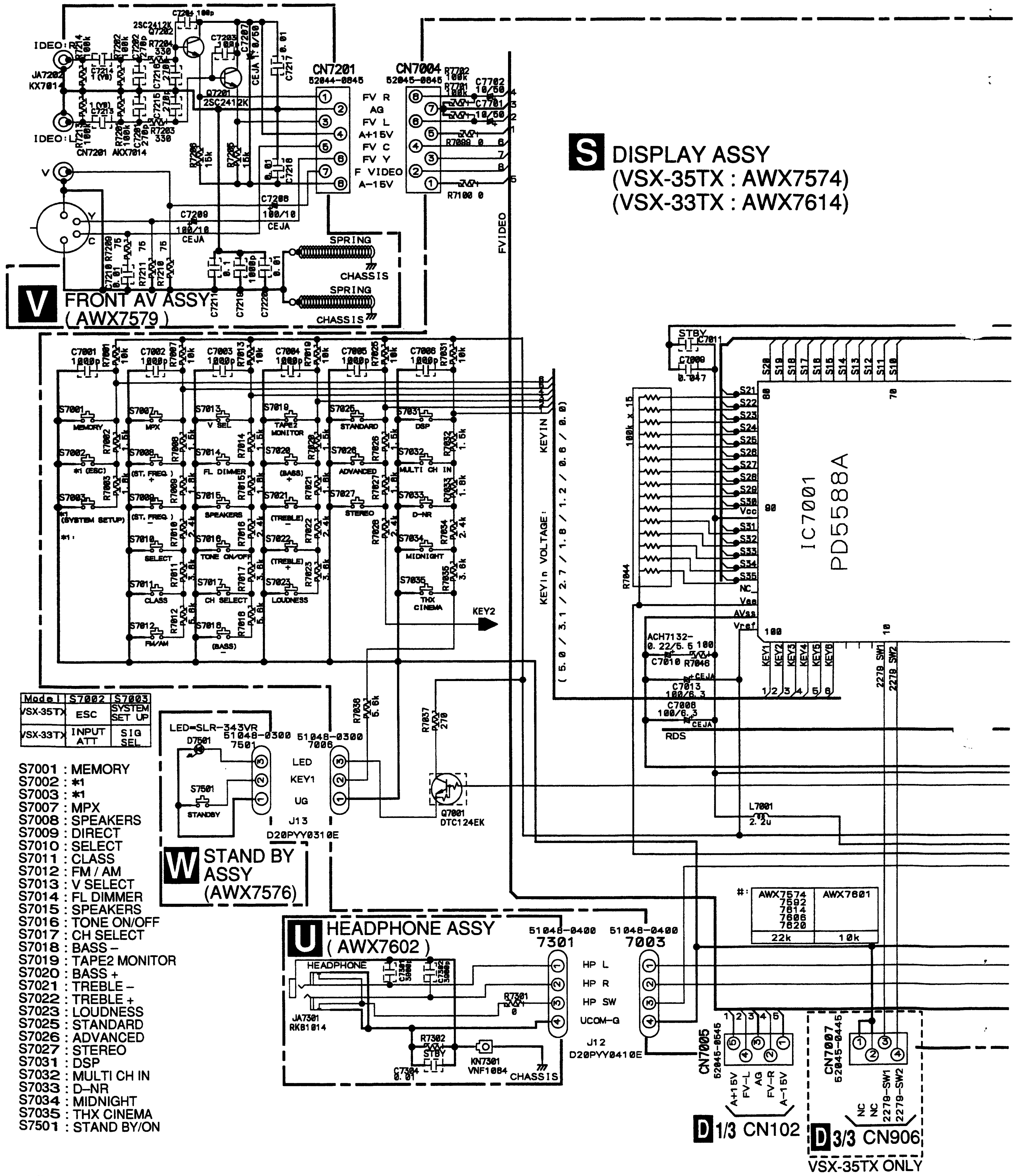
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.17 COMPONENT ASSY (VSX-35TX ONLY)

R COMPONENT ASSY (AWX7582)

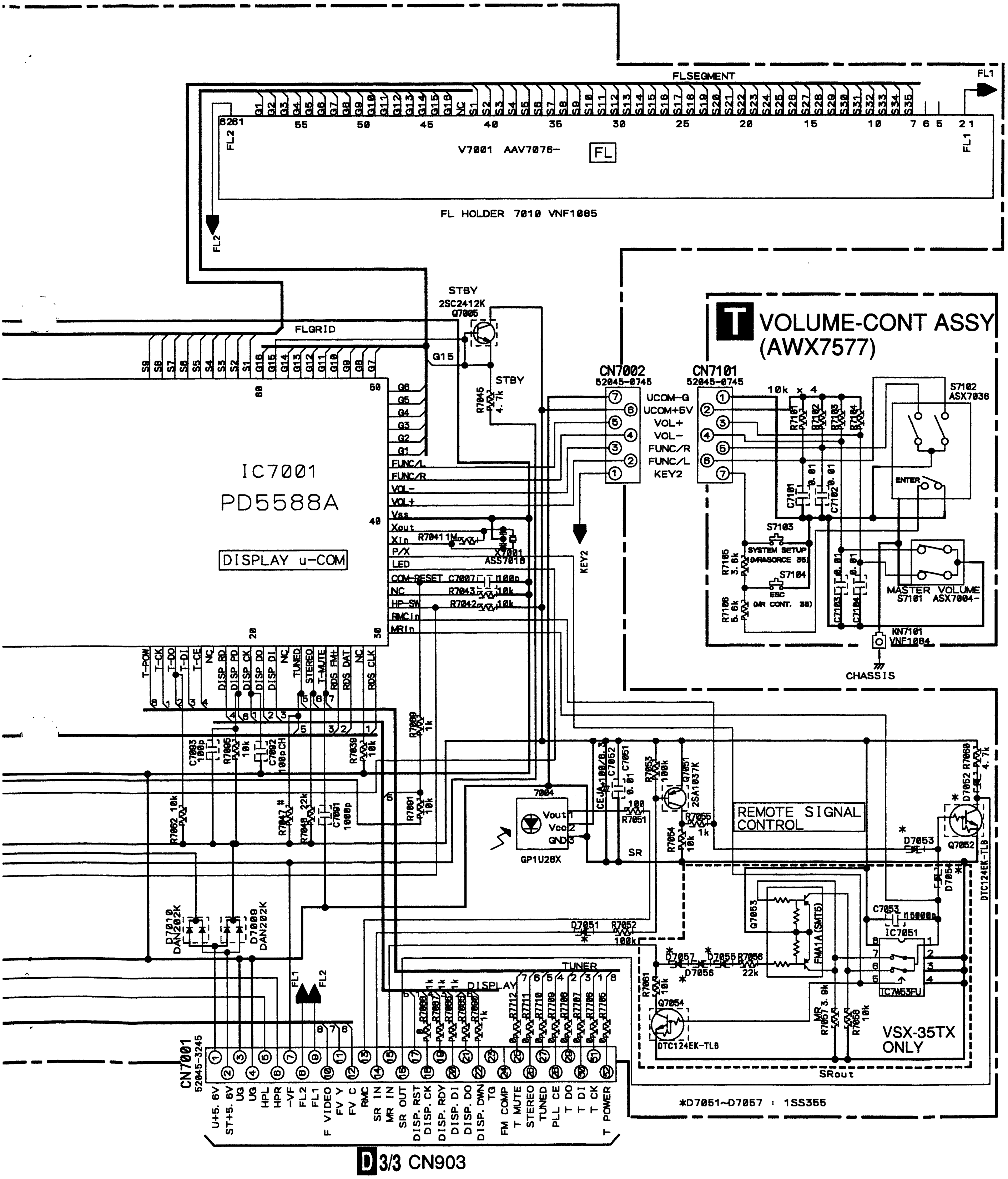

➡: AUDIO SIGNAL ROUTE
Y ➡: Y SIGNAL ROUTE
C ➡: C SIGNAL ROUTE
OSD IC
IC551
LC74782M-9011
(OSD)
VDD1
RST
C3
C2
SEPin
SEPout
SEPo
SYNIn
VDD1
CVin
VSS2
CVout
VSS1
Xin
Xout
C1
BLANK
OSCin
OSCout
CHARA
CS
CK
DT
VDD2
R551 1k
C551 100p
C552 100/10
C553 0.047
C554 0.047
D551
D552
L553 10u
L552 10u
C563 100/10
C561 0.047
C562 100/10
C560 0.047
X551
ASS1056-
C555 15p
C556 15p
C557 24p
C558 24p
L551 33u
R554 1k
R552 1k
R553 1k
C559 100p
Q551
DTC124EK
OSDCONT
RT
CS
CK
DT
COMPONENT SIGNAL SELECTOR
R502 1k
R527 STBY
R529 STBY
R528 STBY
C511 0.01
C512 0.01
IC501
TC74HC4053
VDD
INH
VEE
VSS
A
B
C
R556 0
R503 1k
R555 0
C531 STBY
W504
C532 STBY
W505
C533 STBY
W520
C528 STBY
R517 75
C529 STBY
R518 75
C530 STBY
R519 75
C525 STBY
R514 75
C526 STBY
R515 75
C527 STBY
R516 75
Y JA501 (1/3)
JA501 : AKB7124
Cb JA501 (2/3)
Cr JA501 (3/3)
W524
C516 STBY
C534 STBY
COMPONENT IN1
CHASSIS
Y JA502 (1/3)
JA502 : AKB7124
Cb JA502 (2/3)
Cr JA502 (3/3)
W517
C517 STBY
C535 STBY
COMPONENT IN2
CHASSIS
CN501
KP200TA10L
4053 INH ①
4053 A ②
OSD CK ③
OSD DT ④
OSD CS ⑤
OSD RT ⑥
OSD OUT ⑦
V-5.6V ⑧
V+5.6V ⑨
VG ⑩
H CN604
CK
DT
CS
RT
C501 100/10
C502 100/10
TK15420M (1/2)
IC503 (1/2)
C519 STBY
R504 10k
R505 2k
R506 2k
C520 STBY
C503 100/10
C505 0.01
R523 STBY
C504 100/10
C506 0.01
R507 10k
R524
R525 STBY
R526 STBY
IC503 (2/2)
TK15420M (2/2)
TK15420M (1/2)
IC502 (1/2)
C521 STBY
R508 10k
R512 2k
R510 2k
C523 STBY
C507 100/10
C509 0.01
R511 2k
C524 STBY
R513 2k
C508 100/10
C510 0.01
R509 10k
C522 STBY
IC502 (2/2)
TK15420M (2/2)
VIDEO AMP
R520 75
C513 47p
Y JA503 (1/3)
JA503 : AKB7124
R521 75
C514 47p
Cb JA503 (2/3)
R522 75
C515 47p
Cr JA503 (3/3)
C518 0.01
C536 STBY
COMPONENT OUT
CHASSIS
Y
Cb
Cr

3.18 DISPLAY, VOLUME-CONT, HEADPHONE, FRONT AV and STAND BY ASSYS


S DISPLAY ASSY
(VSX-35TX : AWX7574)
(VSX-33TX : AWX7614)
V FRONT AV ASSY
(AWX7579)
W STAND BY ASSY
(AWX7576)
U HEADPHONE ASSY
(AWX7602)
IC7001
PD5588A
CN7201
52044-0845
CN7004
52045-0845
FV R
AG
FV L
A+15V
FV C
FV Y
F VIDEO
A-15V
FVIDEO
SPRING
CHASSIS
IDEO:R
IDEO:L
JA7202
KX7014
CN7201 AKX7014
Q7202
2SC2412K
Q7201
2SC2412K
KEYIN
KEYIn VOLTAGE:
(5.0 / 3.1 / 2.7 / 1.8 / 1.2 / 0.6 / 0.0)
KEY2
STBY
100k x 15
R7044
ACH7132-
0.22/5.5
RDS
L7001
2.2u
LED=SLR-343VR
D7501
S7501
STANDBY
51048-0300
7501
51048-0300
7006
LED
KEY1
UG
J13
D20PYY0310E
Q7001
DTC124EK
51048-0400
7301
51048-0400
7003
HP L
HP R
HP SW
UCOM-G
J12
D20PYY0410E
HEADPHONE
JA7301
RKB1014
R7302
KN7301
VNF1084
CHASSIS
#: AWX7574 7592 7614 7606 7620 | AWX7601
22k | 10k
CN7005
52045-0545
A+15V
FV-L
AG
FV-R
A-15V
CN7007
52045-0445
NC
NC
2270-SW1
2270-SW2
D 1/3 CN102
D 3/3 CN906
VSX-35TX ONLY
MEMORY
MPX
V SEL
TAPE2 MONITOR
STANDARD
DSP
*1 (ESC)
(ST. FREQ. +)
FL DIMMER
(BASS) +
ADVANCED
MULTI CH IN
*1 (SYSTEM SETUP)
(ST. FREQ. -)
SPEAKERS
(TREBLE) -
STEREO
D-NR
SELECT
TONE ON/OFF
(TREBLE) +
MIDNIGHT
CLASS
CH SELECT
LOUDNESS
THX CINEMA
FM/AM
(BASS) -

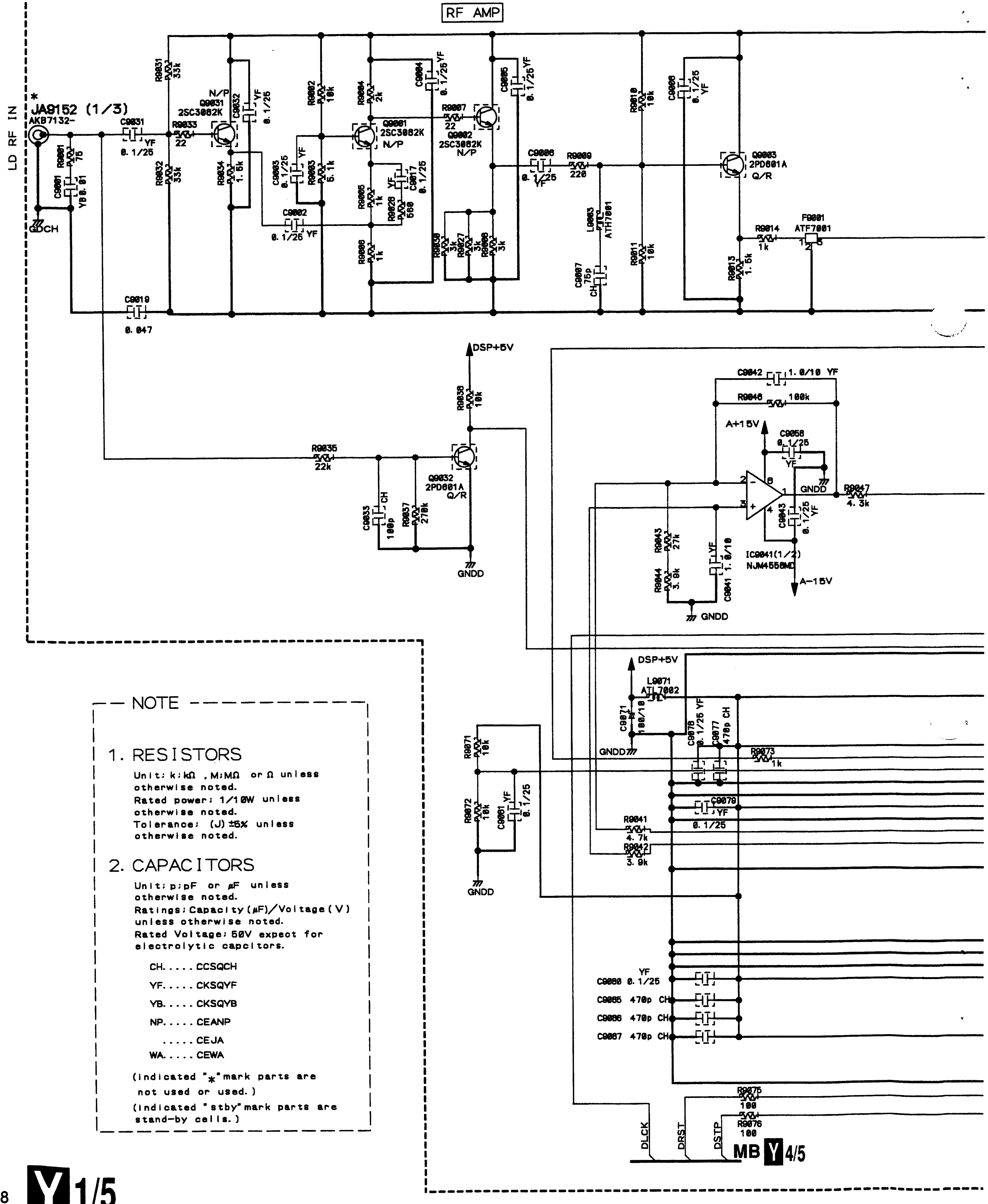
Model	S7002	S7003
VSX-35TX	ESC	SYSTEM SET UP
VSX-33TX	INPUT ATT	SIG SEL

S7001 : MEMORY
S7002 : *1
S7003 : *1
S7007 : MPX
S7008 : SPEAKERS
S7009 : DIRECT
S7010 : SELECT
S7011 : CLASS
S7012 : FM / AM
S7013 : V SELECT
S7014 : FL DIMMER
S7015 : SPEAKERS
S7016 : TONE ON/OFF
S7017 : CH SELECT
S7018 : BASS –
S7019 : TAPE2 MONITOR
S7020 : BASS +
S7021 : TREBLE –
S7022 : TREBLE +
S7023 : LOUDNESS
S7025 : STANDARD
S7026 : ADVANCED
S7027 : STEREO
S7031 : DSP
S7032 : MULTI CH IN
S7033 : D–NR
S7034 : MIDNIGHT
S7035 : THX CINEMA
S7501 : STAND BY/ON


A
B
C
D
FLSEGMENT
FL1
FL2
V7001 AAV7076-
FL
FL HOLDER 7010 VNF1085
FLGRID
STBY
2SC2412K
Q7005
G15
R7045 4.7k
IC7001
PD5588A
DISPLAY u-COM
FUNC/L
FUNC/R
VOL-
VOL+
Vss
Xout
Xin
P/X
LED
COM-RESET
NC
HP-SW
RMCin
MRIn
R7041 1M
X7001 ASS7018
C7007 100p
R7043 10k
R7042 10k
KEY2
CN7002 52045-0745
CN7101 52045-0745
UCOM-G
UCOM+5V
VOL+
VOL-
FUNC/R
FUNC/L
KEY2
T
VOLUME-CONT ASSY
(AWX7577)
10k x 4
R7101
R7102
R7103
R7104
S7102 ASX7036
ENTER
C7101
C7102 0.01
S7103
SYSTEM SETUP (M/ASORCE 35)
S7104
ESC (MR CONT. 35)
R7105 3.6k
R7106 5.6k
C7103 0.01
C7104 0.01
MASTER VOLUME
S7101 ASX7004-
KN7101 VNF1084
CHASSIS
T-POW
T-CK
T-DO
T-DI
T-CE
DISP RD
DISP PD
DISP CK
DISP DO
DISP DI
TUNED
STEREO
T-MUTE
RDS FM+
RDS DAT
RDS CLK
C7003 100p
R7005 10k
C7002 100pCH
R7039 10k
R7009 1k
R7062 10k
R7047
R7048 22k
C7001 1000p
R7001 10k
7004
GP1U28X
Vout
Vcc
GND
CEJA-100/6.3
C7052
C7051 0.01
R7051 100
R7053 100k
Q7051 2SA1037K
R7055 1k
R7054 10k
SR
REMOTE SIGNAL CONTROL
D7052
R7060 4.7k
D7053
Q7052
DTC124EK-TLB
D7054
Q7053
FMA1A (SMT6)
C7053 15000p
IC7051
TC7W53FU
D7051
R7052 100k
D7057
D7055
D7056
R7056 22k
R7061 10k
Q7054
DTC124EK-TLB
R7057 3.9k
R7058 10k
MR
VSX-35TX ONLY
SRout
*D7051~D7057 : 1SS355
D7010 DAN202K
D7009 DAN202K
TUNER
DISPLAY
R7066
R7067
R7068
R7069
R7712
R7711
R7710
R7709
R7708
R7707
R7706
R7705
CN7001 52045-3245
U+5.6V
ST+5.6V
UG
UG
HPL
HPR
-VF
FL2
FL1
F VIDEO
FV Y
FV C
RMC
SR IN
MR IN
SR OUT
DISP. RST
DISP. CK
DISP. RDY
DISP. DI
DISP. DO
DISP. DWN
TG
FM COMP
T MUTE
STEREO
TUNED
PLL CE
T DO
T DI
T CK
T POWER
D 3/3 CN903

3.19 DSP ASSY (1/5)

Y 1/5 DSP ASSY
(VSX-35TX : AWX7561)(VSX-33TX : AWX7611)


RF AMP
LD RF IN
* JA9152 (1/3)
AKB7132-
GDCH
C9001 YB0.01
R9001 75
C9031 YF 0.1/25
R9031 33k
R9032 33k
R9033 22
Q9031 2SC3082K
N/P
C9032 YF 0.1/25
R9034 1.5k
C9019 0.047
R9002 10k
C9003 YF 0.1/25
R9003 5.1k
C9002 0.1/25 YF
R9004 2k
Q9001 2SC3082K N/P
R9005 1k
R9028 560
C9017 YF 0.1/25
R9006 1k
C9004 0.1/25 YF
R9007 22
Q9002 2SC3082K N/P
C9005 YF 0.1/25
R9030 3k
R9027 3k
R9008 3k
C9006 0.1/25 YF
R9009 220
L9003 ATH7001
C9007 75p CH
R9010 10k
R9011 10k
C9008 0.1/25 YF
Q9003 2PD601A Q/R
R9013 1.5k
R9014 1k
F9001 ATF7001
DSP+5V
R9036 10k
R9035 22k
Q9032 2PD601A Q/R
C9033 100p CH
R9037 270k
GNDD
C9042 1.0/10 YF
R9046 100k
A+15V
C9056 0.1/25 YF
GNDD
R9047 4.3k
C9043 0.1/25 YF
IC9041(1/2) NJM4558MD
A−15V
R9043 27k
R9044 3.9k
C9041 1.0/10 YF
GNDD
DSP+5V
L9071 ATL7002
C9071 100/10
GNDD
C9076 0.1/25 YF
C9077 470p CH
R9073 1k
C9079 YF 0.1/25
R9071 10k
R9072 10k
C9061 YF 0.1/25
GNDD
R9041 4.7k
R9042 3.9k
C9080 0.1/25 YF
C9085 470p CH
C9086 470p CH
C9087 470p CH
R9075 100
R9076 100
DLCK
DRST
DSTP
MB Y 4/5

NOTE

1. RESISTORS

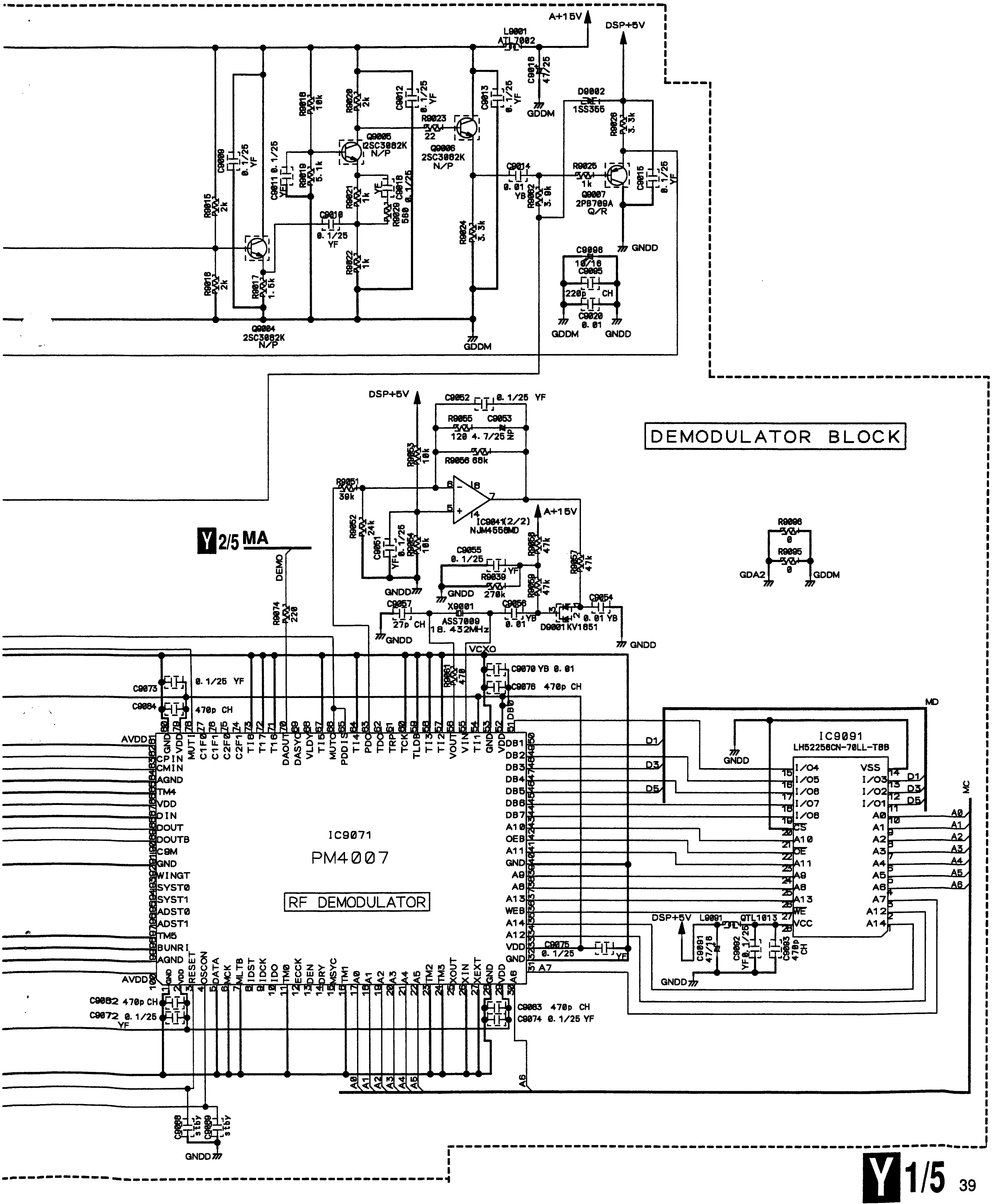
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

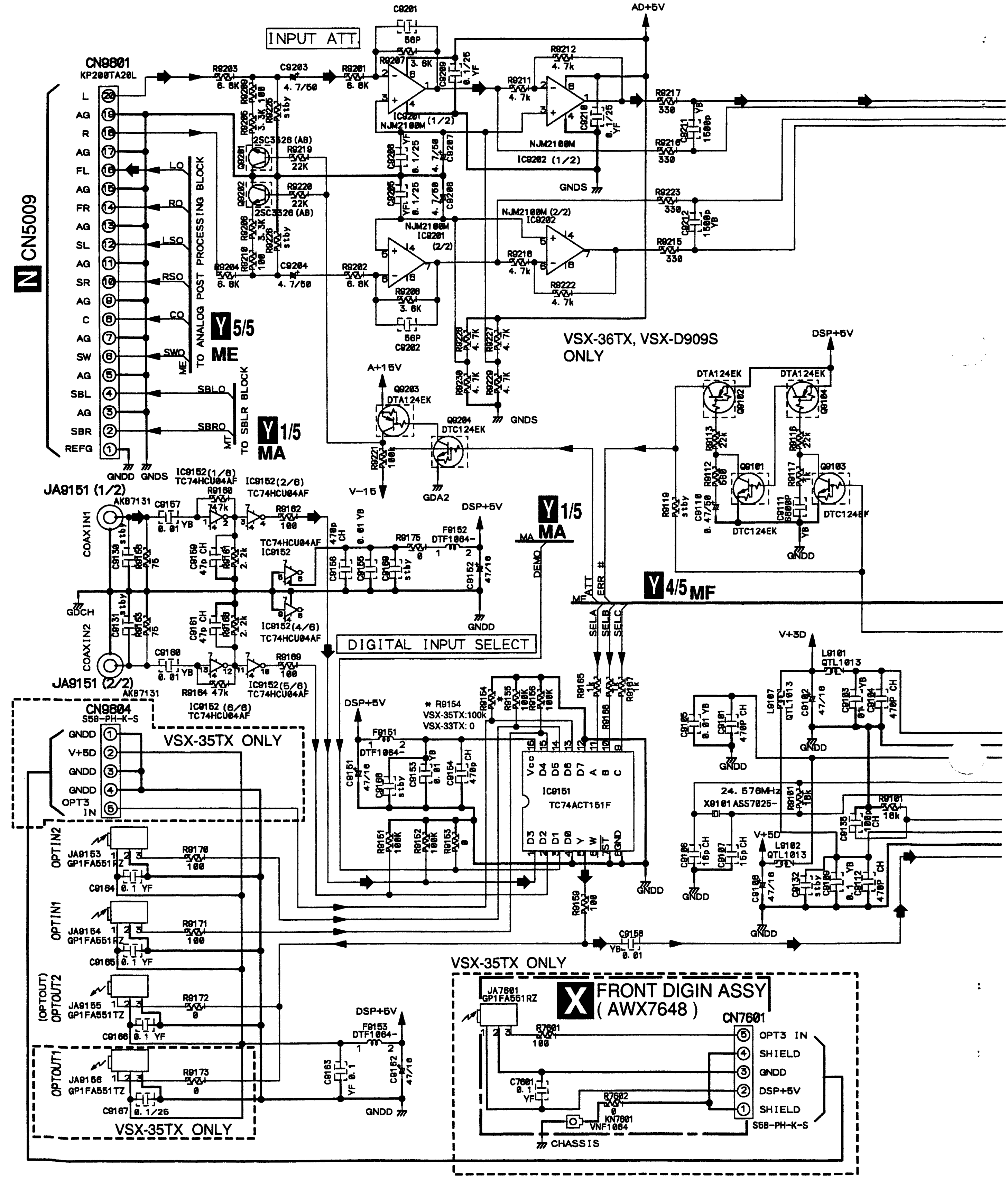
Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
NP. . . . . CEANP
. . . . . CEJA
WA. . . . . CEWA

(indicated "*" mark parts are not used or used.)
(indicated "stby" mark parts are stand-by cells.)


A+15V
DSP+5V
L9001
ATL7002
C9018 47/25
GDDM
D9002
1SS355
R9026 3.3k
C9012 0.1/25 YF
C9013 0.1/25 YF
R9018 10k
R9020 2k
R9023 22
Q9005 2SC3082K N/P
Q9006 2SC3082K N/P
C9014 0.01 YB
R9025 1k
Q9007 2PB709A Q/R
C9015 0.1/25 YF
C9009 0.1/25 YF
C9011 0.1/25 YF
R9019 5.1k
R9021 1k
C9010 0.1/25 YF
C9016 0.1/25 YF
R9028 560
R9015 2k
R9016 2k
R9017 1.5k
R9022 1k
R9024 3.3k
R9062 3.9k
GNDD
C9096 10/16
C9095 220p CH
C9020 0.01
GDDM
GNDD
Q9004 2SC3082K N/P
GDDM
DSP+5V
C9052 0.1/25 YF
R9055 120
C9053 4.7/25 NP
R9053 10k
R9056 68k
R9051 39k
R9052 24k
C9051 0.1/25 YF
R9054 10k
IC9041(2/2) NJM4558MD
A+15V
R9058 47k
R9057 47k
R9059 47k
C9055 0.1/25 YF
R9039 270k
GNDD
GNDD
C9057 27p CH
X9001 ASS7009 18.432MHz
C9056 0.01 YB
D9001 KV1851
C9054 0.01 YB
GNDD
GNDD
DEMODULATOR BLOCK
R9096 0
R9095 0
GDA2
GDDM
Y 2/5 MA
DEMO
R9074 220
VCXO
R9061 470
C9070 YB 0.01
C9076 470p CH
C9073 0.1/25 YF
C9084 470p CH
AVDD
IC9071
PM4007
RF DEMODULATOR
GND VDD MUTI C1F0 C1F1 C2F0 C2F1 TI8 TI7 TI6 DAOUT DASYC VLDY TI5 MUTC PDIS TI4 PDO TDO TRP TCK TLDB TI3 TI2 VOUT VIN TI1 GND VDD
CPIN CMIN AGND TM4 VDD DIN DOUT DOUTB C9M GND WINGT SYST0 SYST1 ADST0 ADST1 TM5 BUNRI AGND
DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7 A10 OEB A11 GND A9 A8 A13 WEB A14 A12 VDD GND
GND VDD RESET OSCON DATA MCK MLTB IDST IDCK IDO TM0 ECCK DEN DRY MSYC TM1 A0 A1 A2 A3 A4 A5 TM2 TM3 XOUT XIN XEXT GND VDD A8
C9075 0.1/25 YF
A7
MD
D1 D3 D5
GNDD
IC9091
LH52256CN-70LL-TBB
I/O4 I/O5 I/O6 I/O7 I/O8 CS A10 OE A11 A9 A8 A13 WE VCC
VSS I/O3 I/O2 I/O1 A0 A1 A2 A3 A4 A5 A6 A7 A12 A14
D1 D3 D5
A0 A1 A2 A3 A4 A5 A6
MC
DSP+5V
L9091
QTL1013
C9091 47/16
C9092 0.1/25 YF
C9093 470p CH
GNDD
AVDD
C9082 470p CH
C9072 0.1/25 YF
C9083 470p CH
C9074 0.1/25 YF
A0 A1 A2 A3 A4 A5 A6
C9098
C9099
GNDD

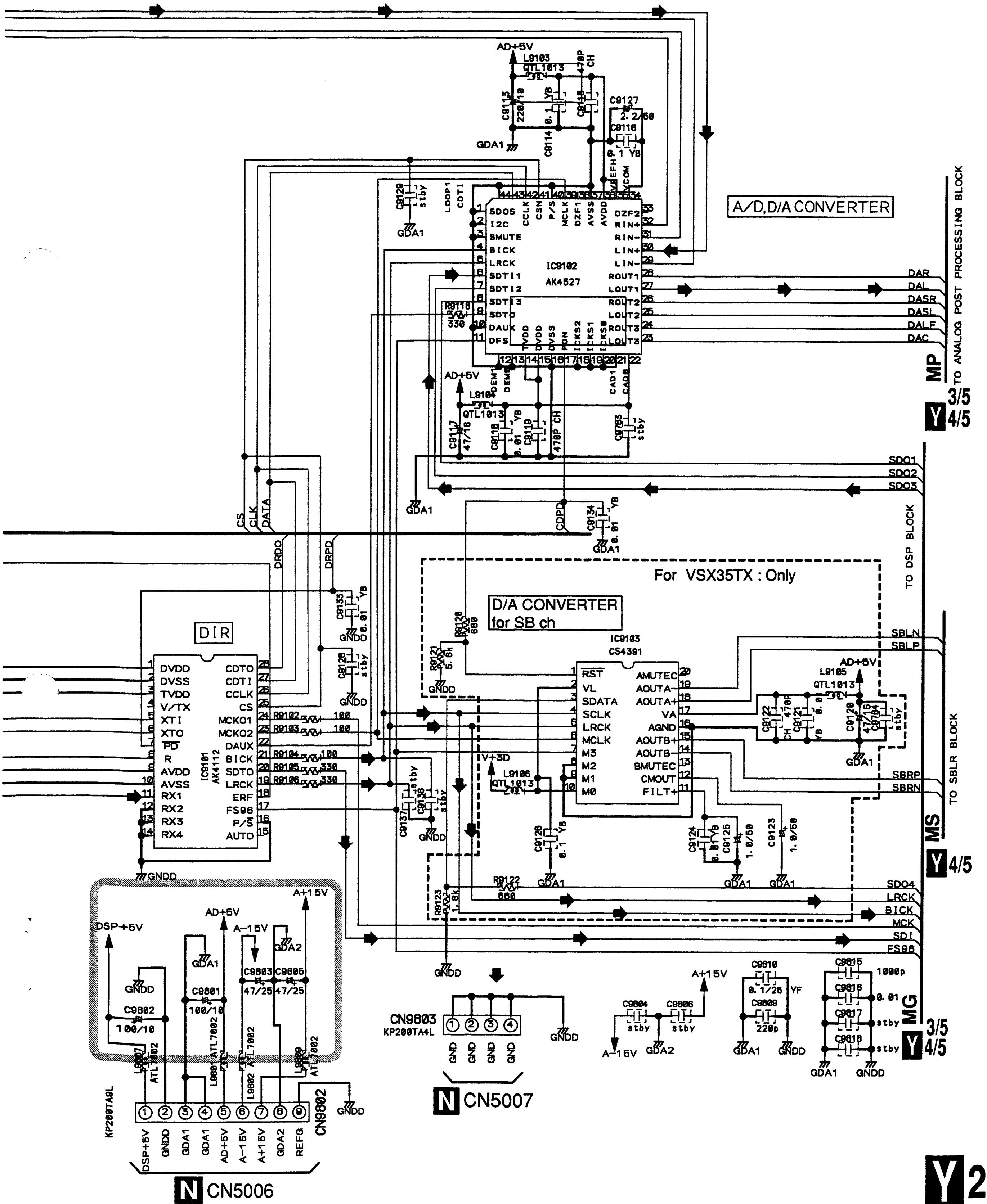
3.20 DSP (2/5) and FRONT DIGIN ASSYS


INPUT ATT.
AD+5V
CN9601
KP200TA20L
L
AG
R
AG
FL
AG
FR
AG
SL
AG
SR
AG
C
AG
SW
AG
SBL
AG
SBR
REFG
N CN5009
LO
RO
LSO
RSO
CO
SWO
ME
TO ANALOG POST PROCESSING BLOCK
Y 5/5
ME
SBLO
SBRO
MT
TO SBLR BLOCK
Y 1/5
MA
GNDD GNDS
R9203 6.8K
C9203 4.7/50
R9201 6.8K
R9207 3.6K
C9201 56P
C9209 0.1/25 YF
IC9201
NJM2100M (1/2)
R9211 4.7k
R9212 4.7k
C9210 0.1/25 YF
R9217 330
C9211 1500p YB
R9216 330
NJM2100M
IC9202 (1/2)
GNDS
Q9201
2SC3326 (AB)
R9219 22K
R9220 22K
Q9202
2SC3326 (AB)
R9205
R9209
R9225 3.3K 100
R9206
R9210
R9226 3.3K 100
stby
C9208 0.1/25 YF
C9207 4.7/50
C9205 0.1/25 YF
C9206 4.7/50
R9223 330
C9212 1500p YB
R9215 330
NJM2100M (2/2)
IC9202
NJM2100M
IC9201 (2/2)
R9218 4.7k
R9222 4.7k
R9204 6.8K
C9204 4.7/50
R9202 6.8K
R9208 3.6K
56P
C9202
R9228 4.7K
R9227 4.7K
R9230 4.7K
R9229 4.7K
GNDS
VSX-36TX, VSX-D909S ONLY
DSP+5V
A+15V
Q9203
DTA124EK
Q9204
DTC124EK
R9221 100k
V-15
GDA2
DTA124EK
Q9102
DTA124EK
Q9104
R9113 22k
R9116 22k
R9112 680
Q9101
R9117 1k
Q9103
R9110 stby
C9110 0.47/50
C9111 5600P
DTC124EK
DTC124EK
YB
GNDD
IC9152(1/6) TC74HCU04AF
IC9152(2/6) TC74HCU04AF
JA9151 (1/2)
AKB7131
COAXIN1
C9157 0.01 YB
R9160 47k
R9162 100
DSP+5V
470p CH
0.01 YB
C9130 stby
R9158 75
C9159 47p CH
R9161 2.2k
TC74HCU04AF
IC9152
R9175 0
F9152 DTF1064-
C9156
C9155
C9169 stby
C9152 47/16
GNDD
Y 1/5
MA
MA
DEMO
ATT
ERR
ME
Y 4/5 MF
SELA
SELB
SELC
GDCH
C9131 stby
R9163 75
COAXIN2
C9161 47p CH
R9166 2.2k
IC9152(4/6) TC74HCU04AF
C9160 0.01 YB
R9164 47k
R9169 100
IC9152(5/6) TC74HCU04AF
JA9151 (2/2)
AKB7131
IC9152 (6/6) TC74HCU04AF
DIGITAL INPUT SELECT
CN9604
S5B-PH-K-S
GNDD
V+5D
GNDD
GNDD
OPT3 IN
VSX-35TX ONLY
DSP+5V
F9151 DTF1064-
C9151 47/16
C9168 stby
C9153 0.01 YB
C9154 470p CH
* R9154
VSX-35TX:100k
VSX-33TX: 0
R9154
R9155 100k
R9156 100k
R9157 100k
R9165 1k
R9166
R9167 1k
IC9151
TC74ACT151F
Vcc D4 D5 D6 D7 A B C
D3 D2 D1 D0 Y W ST GND
R9151 100k
R9152 100k
R9153 0
GNDD
R9159 100
C9158 YB 0.01
OPTIN2
JA9153 GP1FA551RZ
R9170 100
C9164 0.1 YF
OPTIN1
JA9154 GP1FA551RZ
R9171 100
C9165 0.1 YF
(OPTOUT) OPTOUT2
JA9155 GP1FA551TZ
R9172 0
C9166 0.1 YF
OPTOUT1
JA9156 GP1FA551TZ
R9173 0
C9167 0.1/25
VSX-35TX ONLY
DSP+5V
F9153 DTF1064-
C9163 YF 0.1
C9162 47/16
GNDD
V+3D
L9101 QTL1013
L9107 QTL1013
C9102 47/16
C9103 0.1 YB
C9104 470P CH
C9105 0.01 YB
C9101 470P CH
GNDD
24.576MHz
X9101 ASS7025-
R9101 16k
R9101 16k
C9135 100P CH
C9106 15p CH
C9107 15p CH
V+5D
L9102 QTL1013
C9108 47/16
C9132 stby
C9109 0.1 YB
C9133 470P CH
GNDD
VSX-35TX ONLY
X FRONT DIGIN ASSY (AWX7648)
JA7601 GP1FA551RZ
R7601 100
C7601 0.1 YF
R7602 0
KN7601 VNF1064
CHASSIS
CN7601
OPT3 IN
SHIELD
GNDD
DSP+5V
SHIELD
S5B-PH-K-S

Y 2/5 DSP ASSY
(VSX-35TX : AWX7561)
(VSX-33TX : AWX7611)

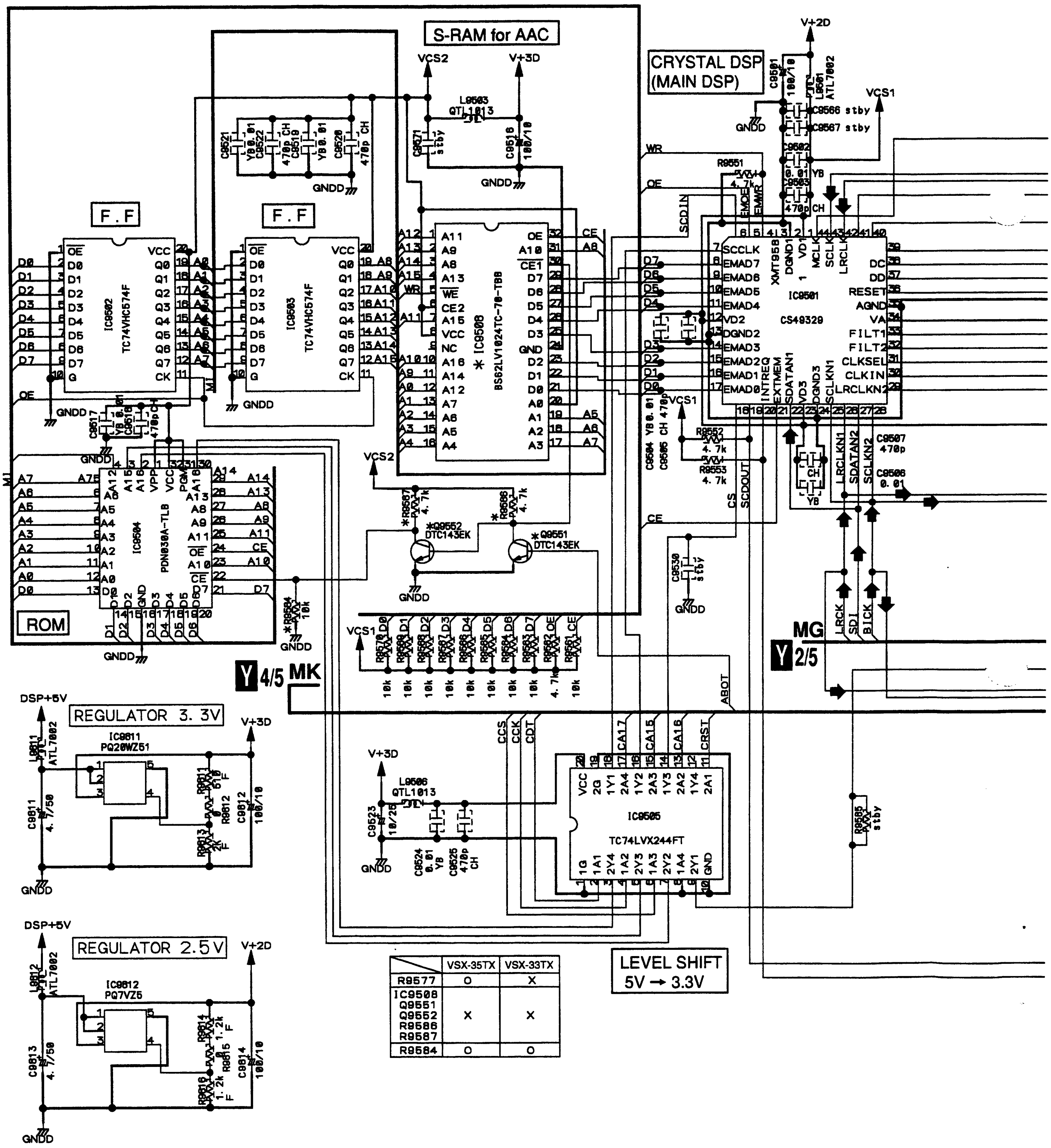
➡: AUDIO SIGNAL ROUTE

▭ : The power supply is shown with the marked box.


A/D,D/A CONVERTER
IC9102
AK4527
SDOS
I2C
SMUTE
BICK
LRCK
SDTI1
SDTI2
SDTI3
SDTO
DAUX
DFS
CCLK
CSN
P/S
MCLK
DZF1
AVSS
AVDD
VREFH
VCOM
DZF2
RIN+
RIN-
LIN+
LIN-
ROUT1
LOUT1
ROUT2
LOUT2
ROUT3
LOUT3
TVDD
DVDD
DVSS
PDN
ICKS2
ICKS1
ICKS0
DEM1
DEM0
CAD1
CAD0
LOOP1
CDTI
AD+5V
L9103
QTL1013
C9113
220/10
C9114
0.1 YB
C9115
470P CH
C9127
2.2/50
C9116
0.1 YB
GDA1
C9120
stby
R9118
330
L9104
QTL1013
C9117
47/16
C9118
0.01 YB
C9119
470P CH
C9785
stby
C9134
0.01 YB
DAR
DAL
DASR
DASL
DALF
DAC
TO ANALOG POST PROCESSING BLOCK
MP
Y 3/5
Y 4/5
SDO1
SDO2
SDO3
TO DSP BLOCK
CS
CLK
DATA
CDPD
DRDO
DRPD
C9133
0.01 YB
C9128
stby
GNDD
DIR
IC9101
AK4112
DVDD
DVSS
TVDD
V/TX
XTI
XTO
PD
R
AVDD
AVSS
RX1
RX2
RX3
RX4
CDTO
CDTI
CCLK
CS
MCKO1
MCKO2
DAUX
BICK
SDTO
LRCK
ERF
FS96
P/S
AUTO
R9102 100
R9103 100
R9104 100
R9105 330
R9106 330
C9136
stby
C9137
stby
For VSX35TX : Only
D/A CONVERTER for SB ch
IC9103
CS4391
RST
VL
SDATA
SCLK
LRCK
MCLK
M3
M2
M1
M0
AMUTEC
AOUTA-
AOUTA+
VA
AGND
AOUTB+
AOUTB-
BMUTEC
CMOUT
FILT+
R9120
680
R9121
5.6k
V+3D
L9106
QTL1013
C9126
0.1 YB
C9124
0.01 YB
C9125
1.0/50
C9123
1.0/50
R9122
680
R9123
1.8k
L9105
QTL1013
C9122
470P CH
C9121
0.01 YB
C9120
47/16
C9784
stby
SBLN
SBLP
SBRP
SBRN
TO SBLR BLOCK
MS
Y 4/5
SDO4
LRCK
BICK
MCK
SDI
FS96
MG
Y 3/5
Y 4/5
DSP+5V
AD+5V
A-15V
A+15V
GDA2
C9802
100/10
C9801
100/10
C9803
47/25
C9805
47/25
L9807
ATL7002
L9801
ATL7002
L9802
ATL7002
L9809
ATL7002
KP200TA9L
CN9802
DSP+5V
GNDD
GDA1
GDA1
AD+5V
A-15V
A+15V
GDA2
REFG
N CN5006
CN9803
KP200TA4L
GND
GND
GND
GND
N CN5007
C9804
stby
C9806
stby
C9810
0.1/25 YF
C9809
220p
C9815
1000p
C9816
0.01
C9817
stby
C9818
stby

3.21 DSP ASSY (3/5)

Y 3/5 DSP ASSY
(VSX-35TX : AWX7561)(VSX-33TX : AWX7611)


S-RAM for AAC
CRYSTAL DSP (MAIN DSP)
F.F
F.F
IC9502 TC74VHC574F
IC9503 TC74VHC574F
IC9508 BS62LV1024TC-70-TBB
IC9501 CS49329
IC9504 PDN030A-TLB
ROM
IC9505 TC74LVX244FT
LEVEL SHIFT 5V → 3.3V
REGULATOR 3.3V
IC9611 PQ20WZ51
REGULATOR 2.5V
IC9612 PQ7VZ5
Q9552 DTC143EK
Q9551 DTC143EK
L9503 QTL1013
L9506 QTL1013
L9501 ATL7002
L9611 ATL7002
L9612 ATL7002
VCS1
VCS2
V+3D
V+2D
DSP+5V
GNDD
WR
OE
CE
SCDIN
SCDOUT
CS
ABOT
CCS
CCK
CDT
CA17
CA15
CA16
CRST
LRCK
SDI
BICK
MG
Y 2/5
Y 4/5 MK

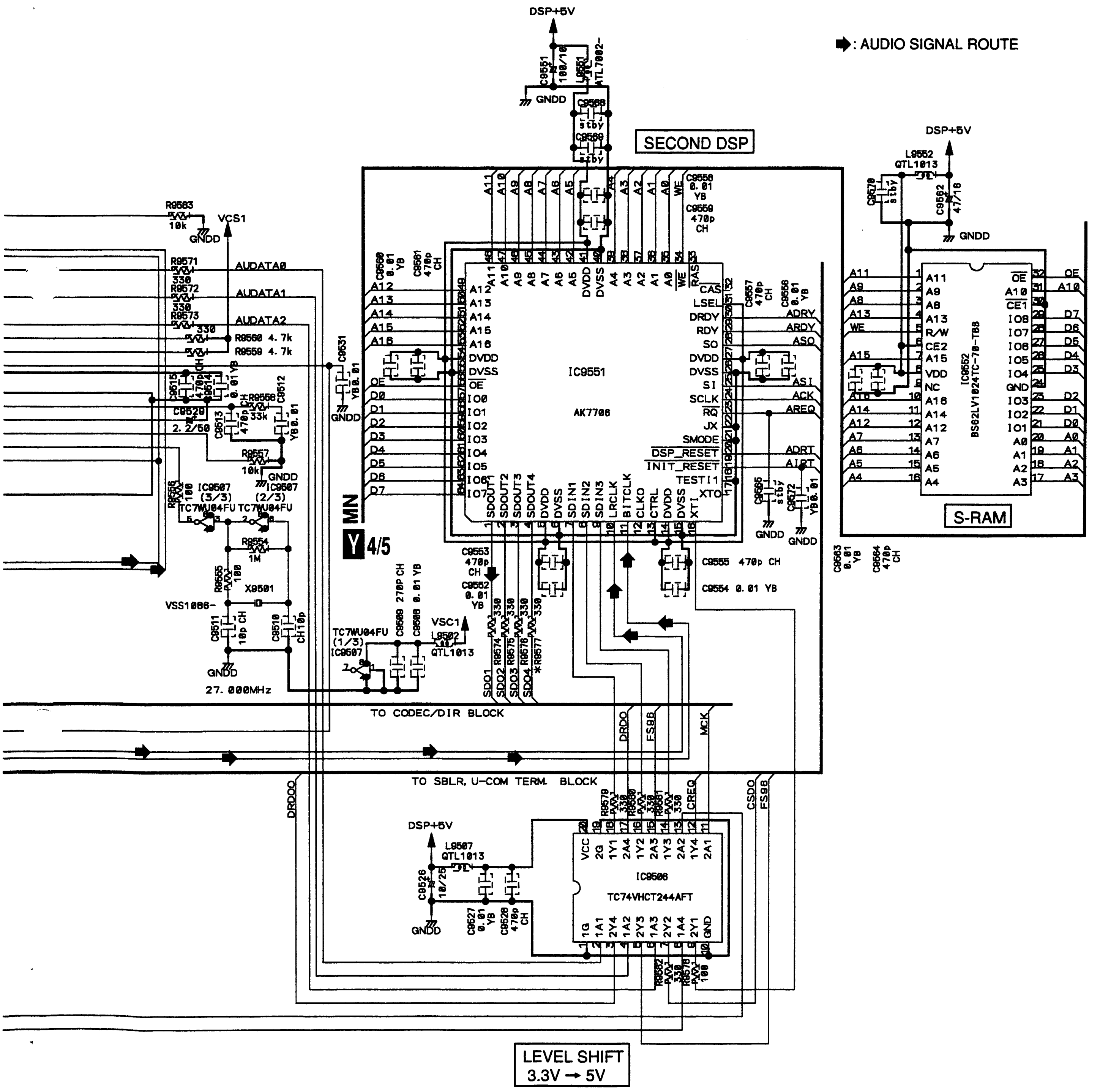
	VSX-35TX	VSX-33TX
R9577	O	X
IC9508 Q9551 Q9552 R9586 R9587	X	X
R9584	O	O

A

B

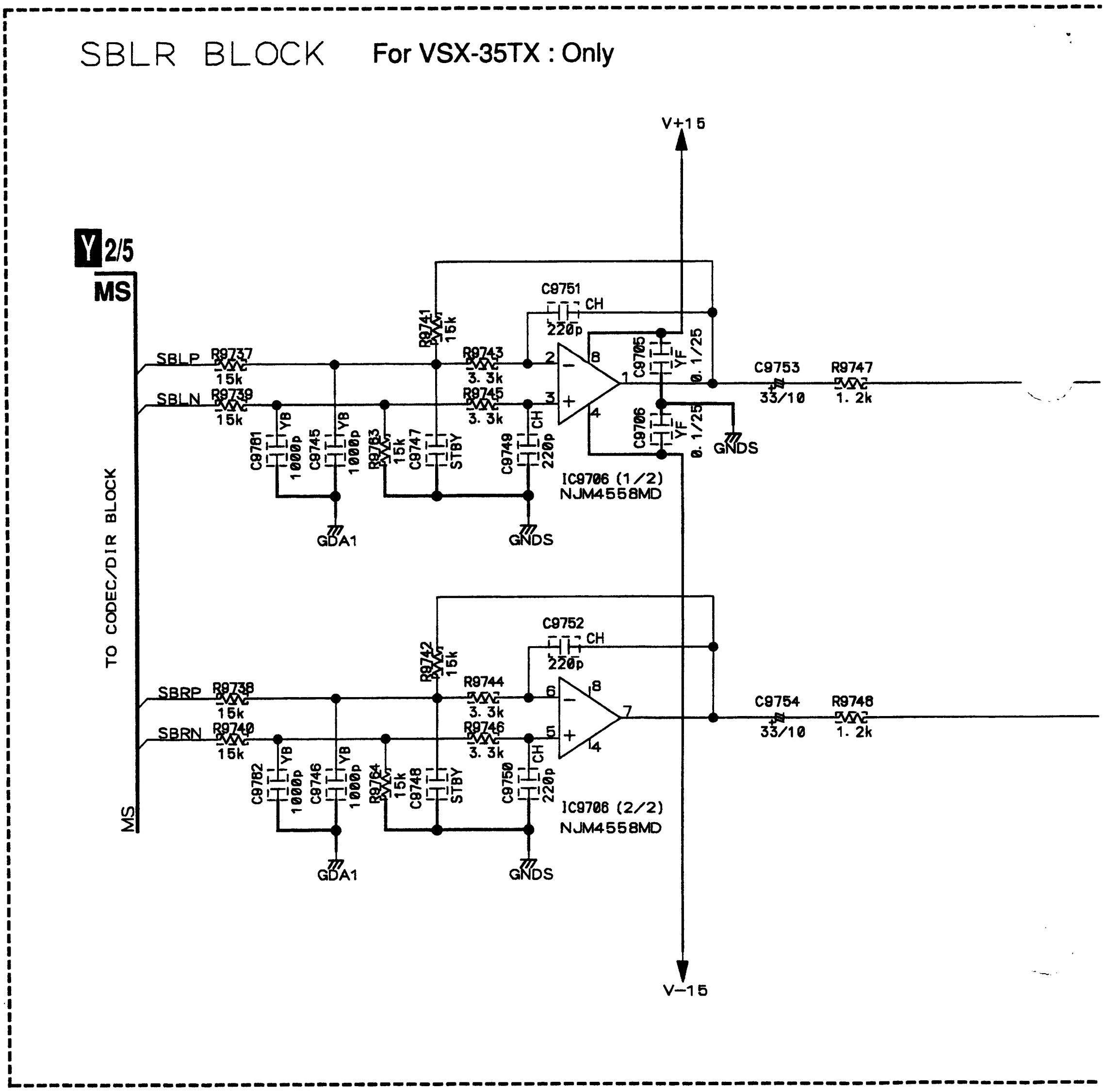
C

D

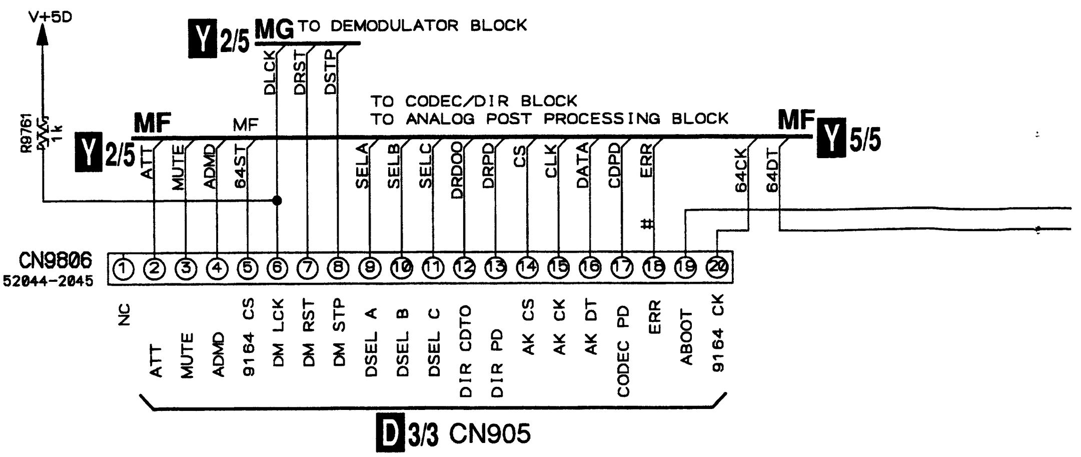

➡: AUDIO SIGNAL ROUTE
SECOND DSP
DSP+5V
GNDD
L9551 ATL7002-
C9551 100/10
C9566 stby
C9569 stby
C9558 0.01 YB
C9559 470p CH
IC9551
AK7706
A11 A10 A9 A8 A7 A6 A5 DVDD DVSS A4 A3 A2 A1 A0 WE RAS
CAS LSEL DRDY RDY SO DVDD DVSS SI SCLK RQ JX SMODE DSP_RESET INIT_RESET TEST11 XTO
SDOUT1 SDOUT2 SDOUT3 SDOUT4 DVDD DVSS SDIN1 SDIN2 SDIN3 LRCLK BITCLK CLKO CTRL DVDD DVSS XTI
A12 A13 A14 A15 A16 DVDD DVSS OE IO0 IO1 IO2 IO3 IO4 IO5 IO6 IO7
ADRY ARDY ASO ASI ACK AREQ ADRT AIRT
D0 D1 D2 D3 D4 D5 D6 D7
C9560 0.01 YB
C9561 470p CH
C9557 470p CH
C9556 0.01 YB
C9531 YB0.01
C9565 stby
C9572 YB0.01
C9553 470p CH
C9552 0.01 YB
C9555 470p CH
C9554 0.01 YB
MN
Y 4/5
R9563 10k
VCS1
R9571 330 AUDATA0
R9572 330 AUDATA1
R9573 330 AUDATA2
R9560 4.7k
R9559 4.7k
C9515 470p CH
C9514 0.01 YB
C9529 2.2/50
C9513 470p
R9558 33k
C9512 YB0.01
R9557 10k
R9556 100
IC9507 (3/3) TC7WU04FU
IC9507 (2/3) TC7WU04FU
R9554 1M
R9555 100
X9501
VSS1086-
C9511 10p CH
C9510 CH10p
27.000MHz
TC7WU04FU (1/3) IC9507
C9509 270P CH
C9508 0.01 YB
VSC1
L9502 QTL1013
R9574 330
R9575 330
R9576 330
*R9577 330
SDO1 SDO2 SDO3 SDO4
TO CODEC/DIR BLOCK
DRDO FS96 MCK
TO SBLR, U-COM TERM. BLOCK
DRDO0
CSDO FS96
CREQ
L9552 QTL1013
C9570 stby
C9562 47/16
IC9552
BS62LV1024TC-70-TBB
A11 A9 A8 A13 R/W CE2 A15 VDD NC A16 A14 A12 A7 A6 A5 A4
OE A10 CE1 IO8 IO7 IO6 IO5 IO4 GND IO3 IO2 IO1 A0 A1 A2 A3
WE D7 D6 D5 D4 D3 D2 D1 D0
S-RAM
C9563 0.01 YB
C9564 470p CH
L9507 QTL1013
C9526 10/25
C9527 0.01 YB
C9528 470p CH
IC9506
TC74VHCT244AFT
VCC 2G 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1
1G 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 GND
R9579 330
R9580 330
R9581 330
R9582 330
R9578 100
LEVEL SHIFT
3.3V → 5V

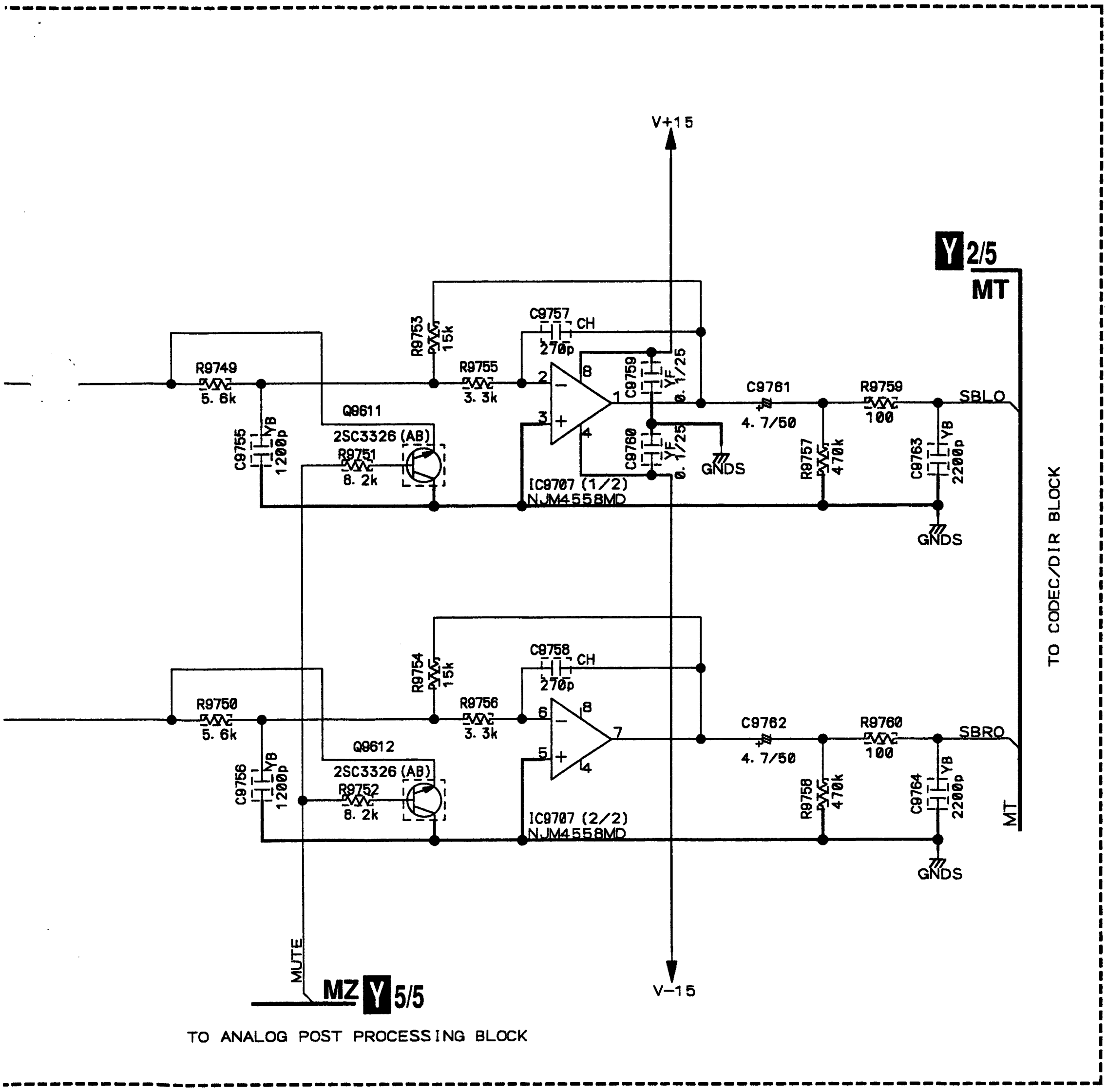
3.22 DSP ASSY (4/5)

Y 4/5 DSP ASSY
(VSX-35TX : AWX7561) (VSX-33TX : AWX7611)

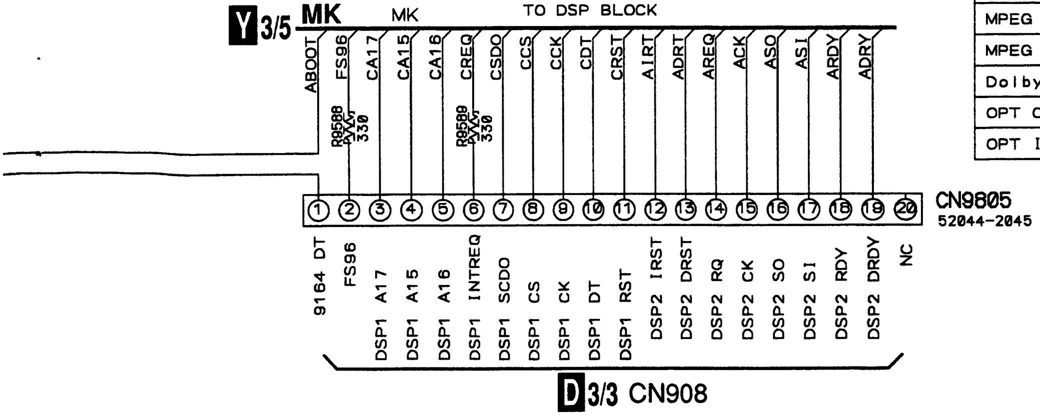

SBLR BLOCK
For VSX-35TX : Only
V+15
Y 2/5
MS
TO CODEC/DIR BLOCK
SBLP
R9737
15k
SBLN
R9739
15k
C9781
YB
1000p
C9745
YB
1000p
R9763
15k
C9747
STBY
R9741
15k
R9743
3.3k
R9745
3.3k
C9749
CH
220p
C9751
CH
220p
2
3
8
1
4
C9705
YF
0.1/25
C9706
YF
0.1/25
GNDS
IC9706 (1/2)
NJM4558MD
GDA1
GNDS
C9753
33/10
R9747
1.2k
SBRP
R9738
15k
SBRN
R9740
15k
C9782
YB
1000p
C9746
YB
1000p
R9764
15k
C9748
STBY
R9742
15k
R9744
3.3k
R9746
3.3k
C9750
CH
220p
C9752
CH
220p
6
5
8
7
4
IC9706 (2/2)
NJM4558MD
GDA1
GNDS
C9754
33/10
R9748
1.2k
MS
V−15

U—COM TERM. BLOCK

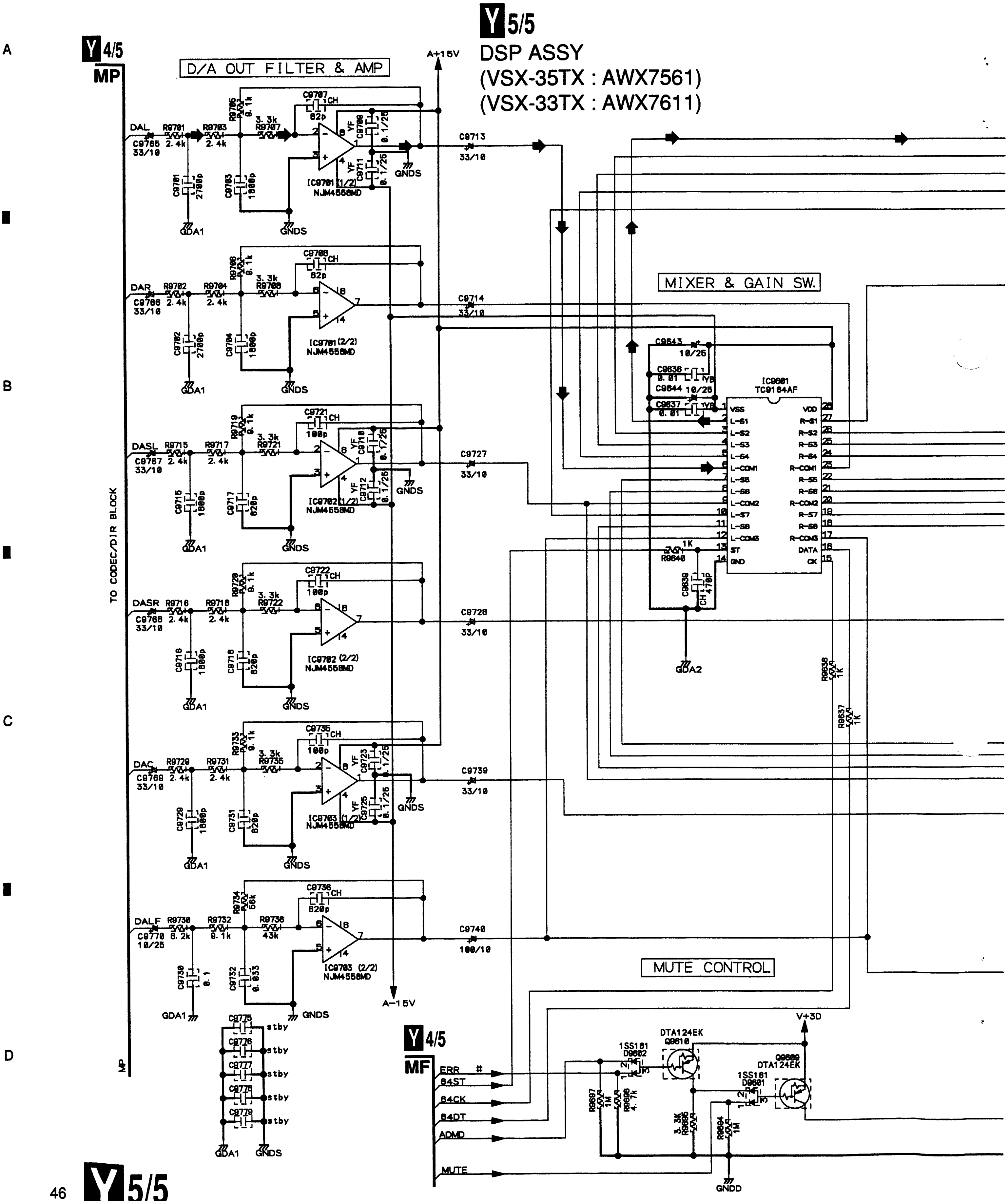

V+5D
R9761
1k
Y 2/5
MG
TO DEMODULATOR BLOCK
DLCK
DRST
DSTP
TO CODEC/DIR BLOCK
TO ANALOG POST PROCESSING BLOCK
Y 2/5
MF
MF
MF
Y 5/5
ATT
MUTE
ADMD
64ST
SELA
SELB
SELC
DRDOO
DRPD
CS
CLK
DATA
CDPD
ERR
#
64CK
64DT
CN9806
52044-2045
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳
NC
ATT
MUTE
ADMD
9164 CS
DM LCK
DM RST
DM STP
DSEL A
DSEL B
DSEL C
DIR CDTO
DIR PD
AK CS
AK CK
AK DT
CODEC PD
ERR
ABOOT
9164 CK
D 3/3 CN905

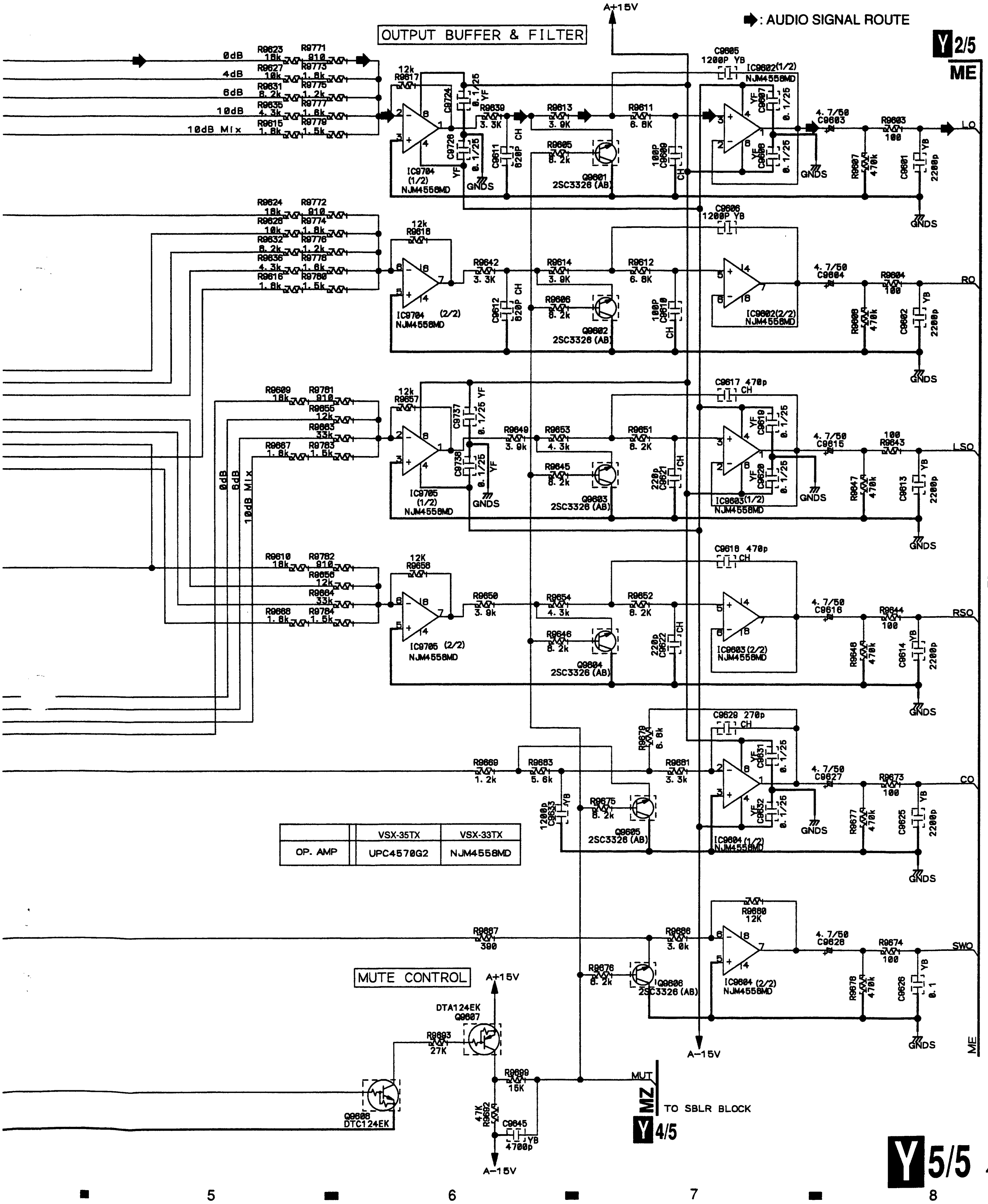

V+15
Y 2/5
MT
R9753
15k
C9757
270p
CH
R9749
5.6k
R9755
3.3k
C9759
YF
0.1/25
C9761
4.7/50
R9759
100
SBLO
Q9611
2SC3326(AB)
R9751
8.2k
C9755
YB
1200p
C9760
YF
0.1/25
GNDS
R9757
470k
C9763
YB
2200p
IC9707 (1/2)
NJM4558MD
GNDS
TO CODEC/DIR BLOCK
R9754
15k
C9758
270p
CH
R9750
5.6k
R9756
3.3k
C9762
4.7/50
R9760
100
SBRO
Q9612
2SC3326(AB)
R9752
8.2k
C9756
YB
1200p
R9758
470k
C9764
YB
2200p
IC9707 (2/2)
NJM4558MD
GNDS
MT
MUTE
MZ Y 5/5
V-15
TO ANALOG POST PROCESSING BLOCK

	VSX-35TX	VSX-33TX
DEMODULATOR	×	×
MPEG BC	×	×
MPEG AAC	×	×
Dolby EX	○	×
OPT OUT	2	1
OPT IN (FRONT)	○	×


Y 3/5
MK
MK
TO DSP BLOCK
ABOOT
FS96
CA17
CA15
CA16
CREQ
CSDO
CCS
CCK
CDT
CRST
AIRT
ADRT
AREQ
ACK
ASO
ASI
ARDY
ADRY
R9588
330
R9589
330
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳
CN9805
52044-2045
9164 DT
FS96
DSP1 A17
DSP1 A15
DSP1 A16
DSP1 INTREQ
DSP1 SCDO
DSP1 CS
DSP1 CK
DSP1 DT
DSP1 RST
DSP2 IRST
DSP2 DRST
DSP2 RQ
DSP2 CK
DSP2 SO
DSP2 SI
DSP2 RDY
DSP2 DRDY
NC
D 3/3 CN908

3.23 DSP ASSY (5/5)


Y 5/5
DSP ASSY
(VSX-35TX : AWX7561)
(VSX-33TX : AWX7611)
Y 4/5
MP
D/A OUT FILTER & AMP
A+15V
A-15V
DAL
DAR
DASL
DASR
DAC
DALF
TO CODEC/DIR BLOCK
R9701 2.4k
R9703 2.4k
R9705 0.1k
R9707 3.3k
C9707 82p CH
C9765 33/10
C9701 2700p
C9703 1800p
IC9701 (1/2) NJM4558MD
IC9701 (2/2) NJM4558MD
IC9702 (1/2) NJM4558MD
IC9702 (2/2) NJM4558MD
IC9703 (1/2) NJM4558MD
IC9703 (2/2) NJM4558MD
C9713 33/10
C9714 33/10
C9727 33/10
C9728 33/10
C9739 33/10
C9740 100/10
GDA1
GNDS
GDA2
GNDD
MIXER & GAIN SW.
IC9601 TC9164AF
1 VSS
2 L-S1
3 L-S2
4 L-S3
5 L-S4
6 L-COM1
7 L-S5
8 L-S6
9 L-COM2
10 L-S7
11 L-S8
12 L-COM3
13 ST
14 GND
28 VDD
27 R-S1
26 R-S2
25 R-S3
24 R-S4
23 R-COM1
22 R-S5
21 R-S6
20 R-COM2
19 R-S7
18 R-S8
17 R-COM3
16 DATA
15 CK
C9643 10/25
C9636 0.01
C9644 10/25
C9637 0.01
R9640 1K
C9639 470P CH
R9638 1K
R9637 1K
MUTE CONTROL
Y 4/5
MF
ERR
84ST
84CK
84DT
ADMD
MUTE
V+3D
DTA124EK Q9610
DTA124EK Q9609
1SS181 D9602
1SS181 D9601
R9697 1M
R9696 4.7k
R9695 3.3K
R9694 1M
C9775 stby
C9776 stby
C9777 stby
C9778 stby
C9779 stby
A B C D
1 2 3 4

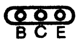
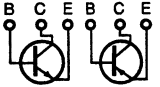
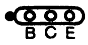
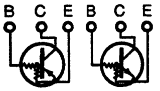
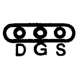
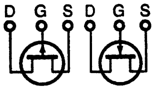
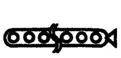
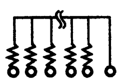
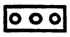
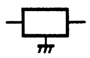

A+15V
OUTPUT BUFFER & FILTER
➡: AUDIO SIGNAL ROUTE
Y 2/5
ME
0dB
4dB
6dB
10dB
10dB Mix
R9623 18k
R9771 910
R9627 10k
R9773 1.8k
R9631 8.2k
R9775 1.2k
R9635 4.3k
R9777 1.8k
R9615 1.8k
R9779 1.5k
12k R9617
C9724 0.1/25 YF
C9726 0.1/25 YF
IC9704 (1/2) NJM4558MD
R9639 3.3K
C9611 620P CH
R9613 3.9K
R9605 8.2k
Q9601 2SC3326 (AB)
R9611 6.8K
100P C9609 CH
C9605 1200P YB
IC9602(1/2) NJM4558MD
C9607 0.1/25 YF
C9608 0.1/25 YF
4.7/50 C9603
R9603 100
R9607 470k
C9601 2200p YB
LO
GNDS
R9624 18k
R9772 910
R9628 10k
R9774 1.8k
R9632 8.2k
R9776 1.2k
R9636 4.3k
R9778 1.8k
R9616 1.8k
R9780 1.5k
12k R9618
IC9704 (2/2) NJM4558MD
R9642 3.3K
C9612 620P CH
R9614 3.9K
R9606 8.2k
Q9602 2SC3326 (AB)
R9612 6.8K
100P C9610 CH
C9606 1200P YB
IC9602(2/2) NJM4558MD
4.7/50 C9604
R9604 100
R9608 470k
C9602 2200p YB
RO
R9609 18k
R9781 910
R9655 12k
R9663 33k
R9667 1.8k
R9783 1.5k
12k R9657
C9737 0.1/25 YF
C9736 0.1/25 YF
IC9705 (1/2) NJM4558MD
R9649 3.9k
R9653 4.3k
R9645 8.2k
Q9603 2SC3326 (AB)
R9651 8.2K
220p C9621 CH
C9617 470p CH
C9619 0.1/25 YF
C9620 0.1/25 YF
IC9603(1/2) NJM4558MD
4.7/50 C9615
100 R9643
R9647 470k
C9613 2200p YB
LSO
0dB
6dB
10dB Mix
R9610 18k
R9782 910
R9656 12k
R9664 33k
R9668 1.8k
R9784 1.5k
12K R9658
IC9705 (2/2) NJM4558MD
R9650 3.9k
R9654 4.3k
R9646 8.2k
Q9604 2SC3326 (AB)
R9652 8.2K
220p C9622 CH
C9618 470p CH
IC9603(2/2) NJM4558MD
4.7/50 C9616
R9644 100
R9648 470k
C9614 2200p YB
RSO
TO CODEC/DIR BLOCK
R9679 6.8k
C9629 270p CH
R9669 1.2k
R9683 5.6k
R9681 3.3k
1200p C9633 YB
R9675 8.2k
Q9605 2SC3326 (AB)
C9631 0.1/25 YF
C9632 0.1/25 YF
IC9604(1/2) NJM4558MD
4.7/50 C9627
R9673 100
R9677 470k
C9625 2200p YB
CO
R9687 390
R9686 3.0k
R9680 12K
IC9604 (2/2) NJM4558MD
4.7/50 C9628
R9674 100
R9678 470k
C9626 0.1 YB
SWO
R9676 8.2k
Q9606 2SC3326 (AB)
MUTE CONTROL
A+15V
DTA124EK Q9607
R9693 27K
Q9608 DTC124EK
R9689 15K
47K R9692
C9645 4700p YB
A-15V
MUT
MZ
TO SBLR BLOCK
Y 4/5
A-15V
ME

	VSX-35TX	VSX-33TX
OP. AMP	UPC4570G2	NJM4558MD

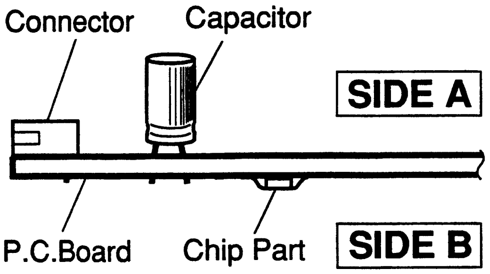
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

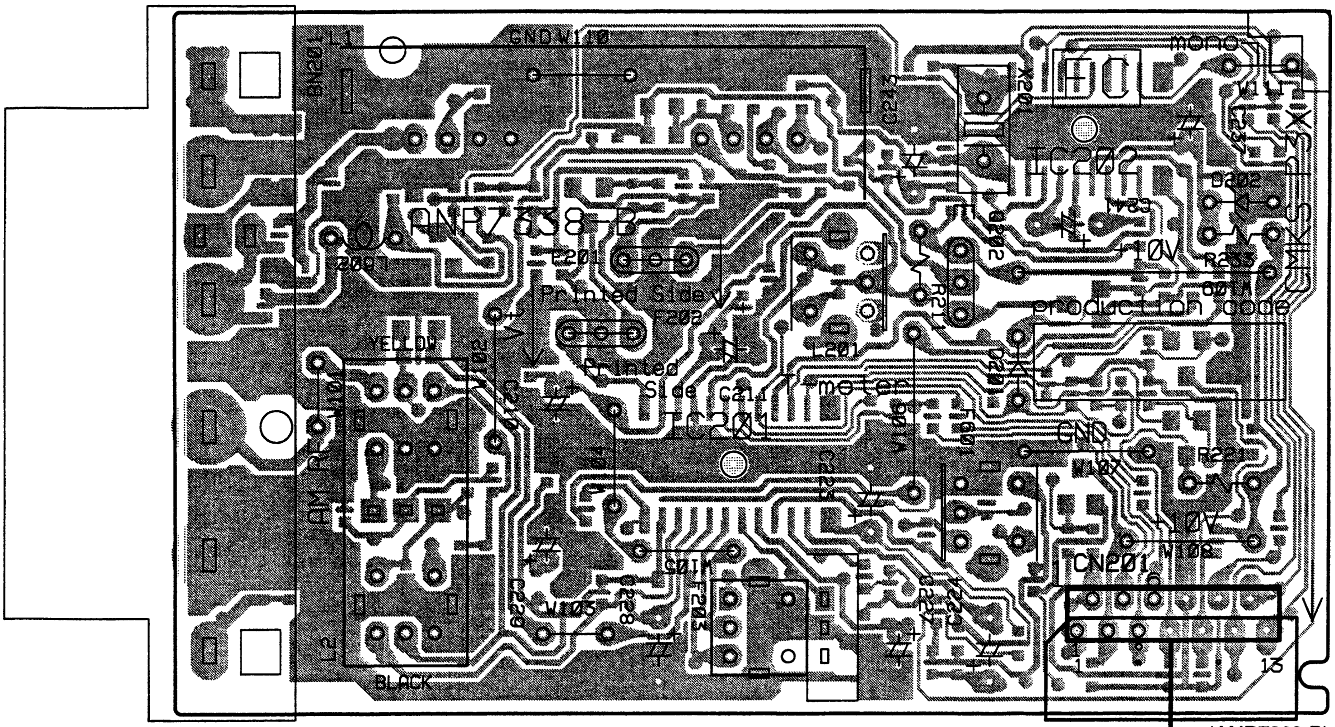
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 FM/AM TUNER UNIT

A FM/AM TUNER UNIT


ANP7338-B
GND W110
BN201
IC202
mono
D202
R233
10V
production code
Printed Side
F202
L201
IC201
W106
GND
W107
R221
W108
CN201
1
13
YELLOW
BLACK
AM
W105
F203
W102
W101
A
B

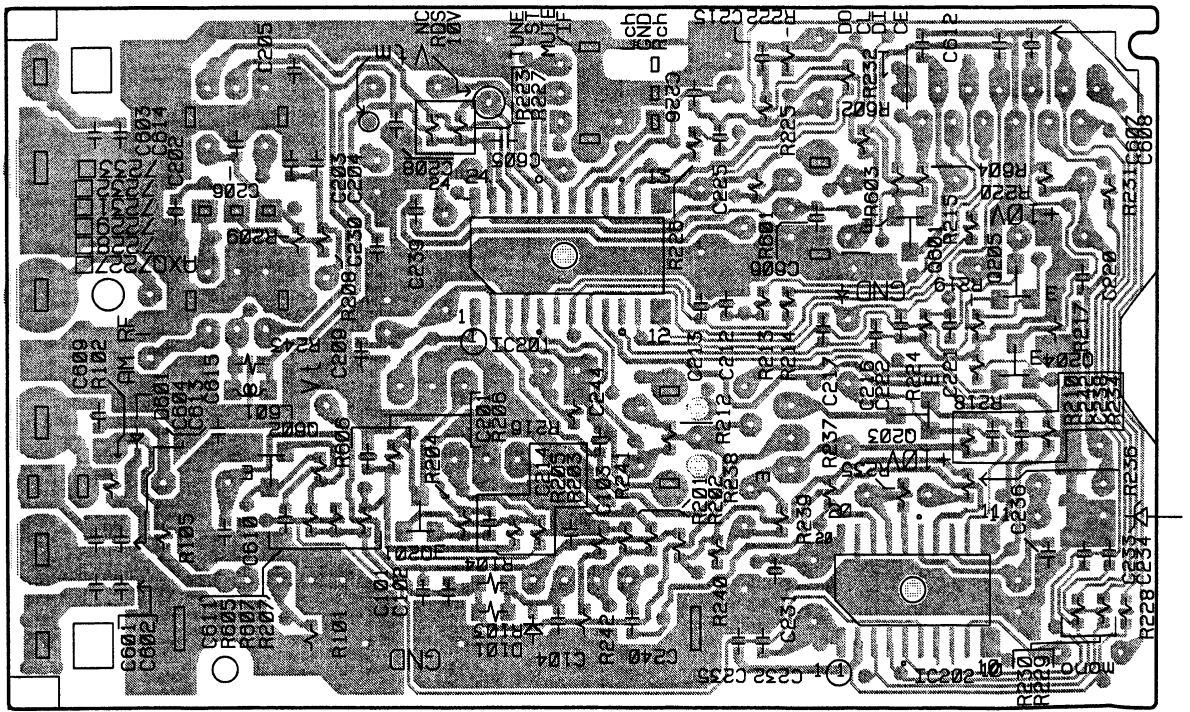
(ANP7338-B)

SIDE A

Q202

D CN291

A FM/AM TUNER UNIT


C205
NC
RDS
10V
TUNE
ST
MUTE
Lch
GND
Rch
R222
C215
DO
CL
DI
CE
C612
R232
R225
C603
C614
C602
R604
R220
C607
C608
R231
Q601
Q205
C220
R226
C225
R601
C606
R208
C230
C239
C209
R245
C609
R102
AM
C604
C613
C615
IC201
1
12
R213
R214
R237
Q203
Q204
R218
R236
C236
C211
C210
C206
R206
R204
R210
R202
R201
R238
R239
C108
C109
R104
R105
C610
C611
R605
R607
R101
D101
R103
C104
C240
C242
R240
C231
C232
C235
IC202
mono
C601
C602
GND
R228
C234
C233
C
D

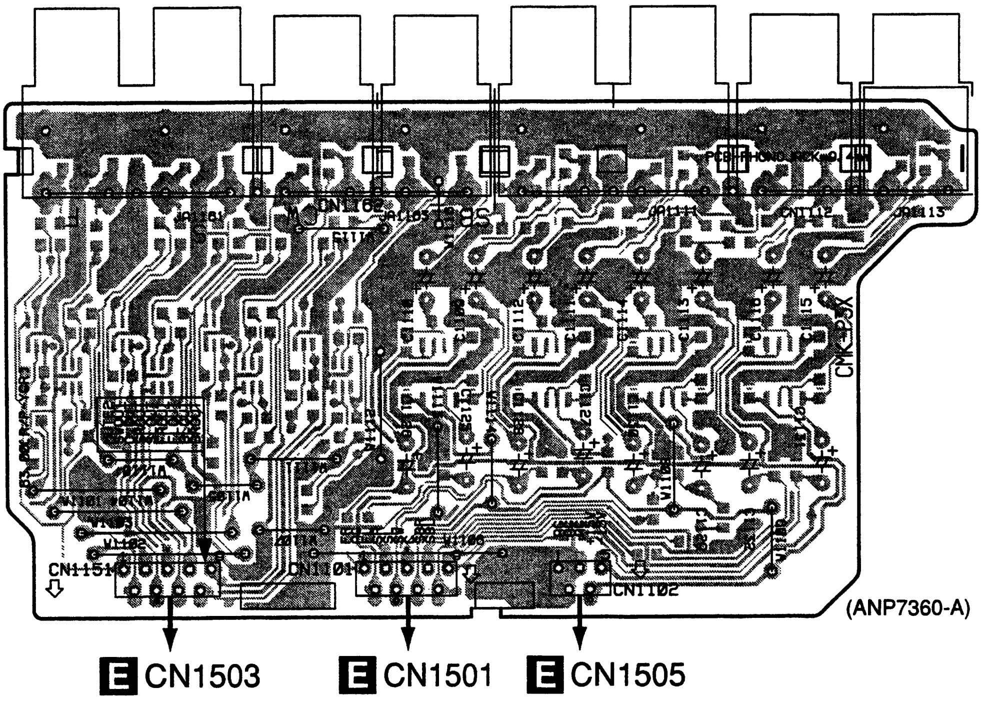
(ANP7338-B)

SIDE B

Q602
IC201
Q203
Q601
IC202
Q204
Q205

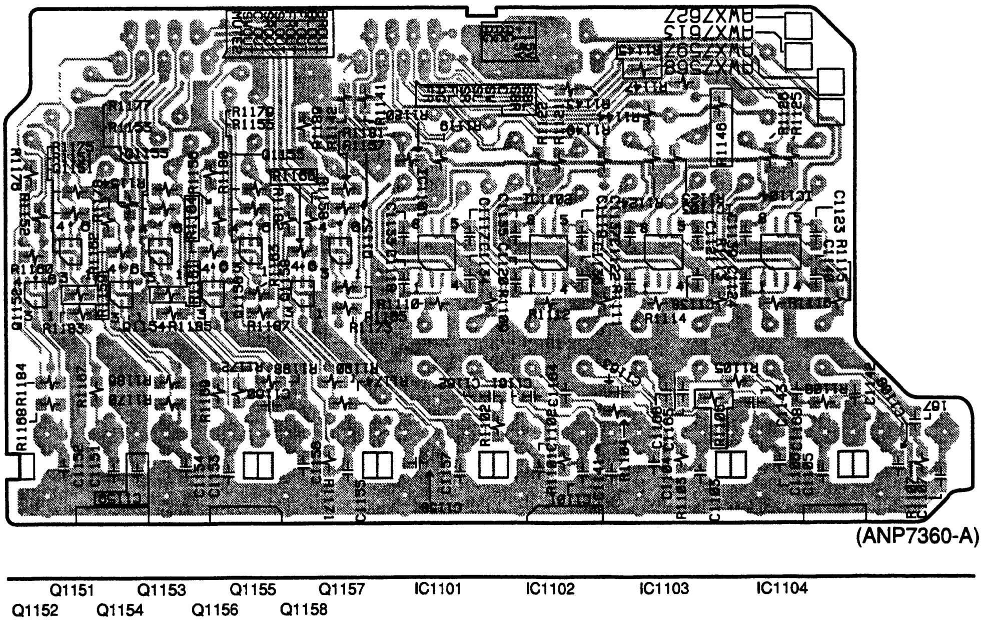
4.2 EX I/O ASSY (5.1CH I/O ASSY)

B EX I/O ASSY (5.1CH I/O ASSY)


CN1162
CN1151
CN1101
CN1102
CMK1D5X
(ANP7360-A)
E CN1503
E CN1501
E CN1505

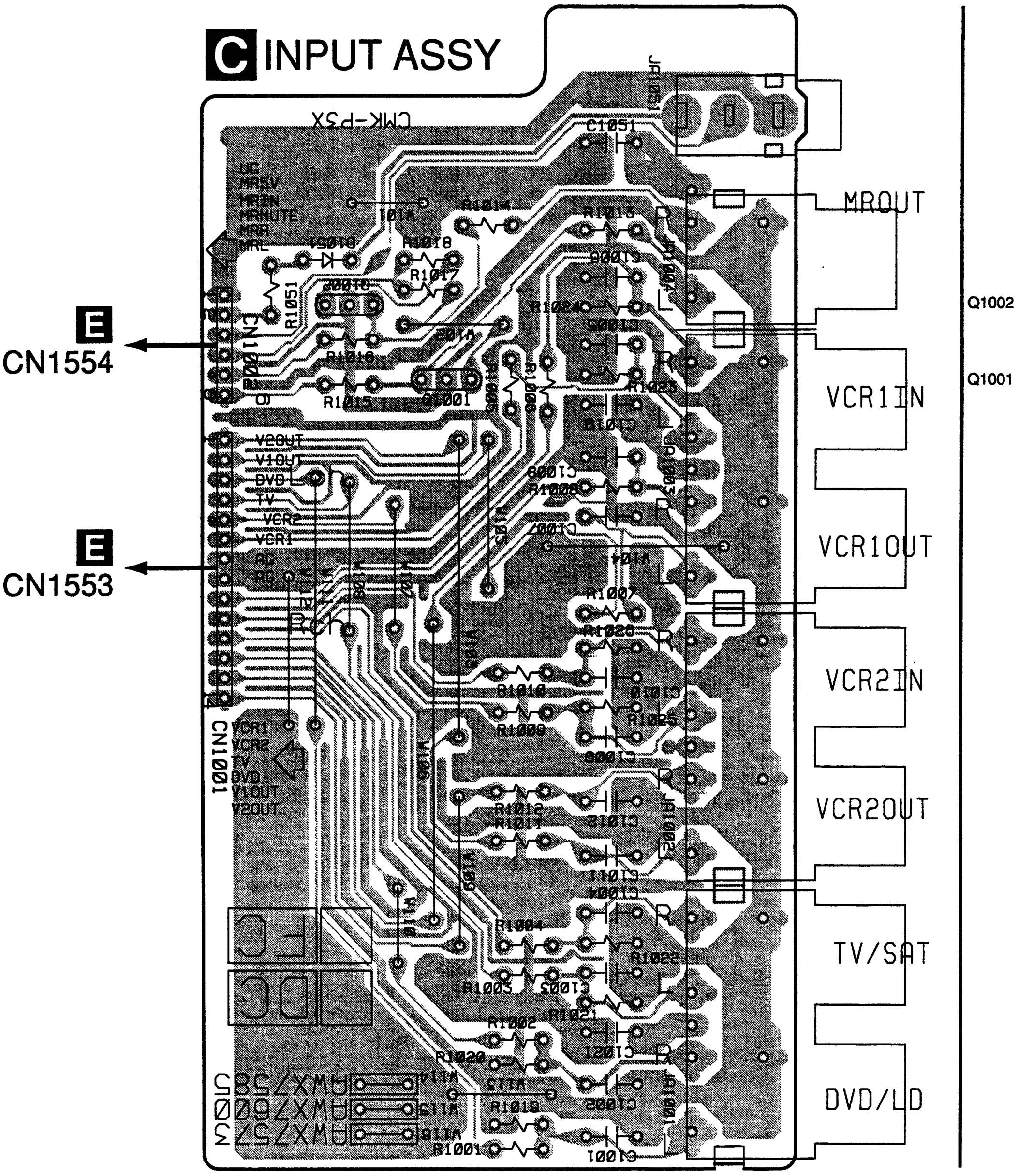
SIDE A

B EX I/O ASSY (5.1CH I/O ASSY)


RWX7627
RWX7613
(ANP7360-A)
Q1151
Q1153
Q1155
Q1157
IC1101
IC1102
IC1103
IC1104
Q1152
Q1154
Q1156
Q1158

SIDE B

4.3 INPUT ASSY

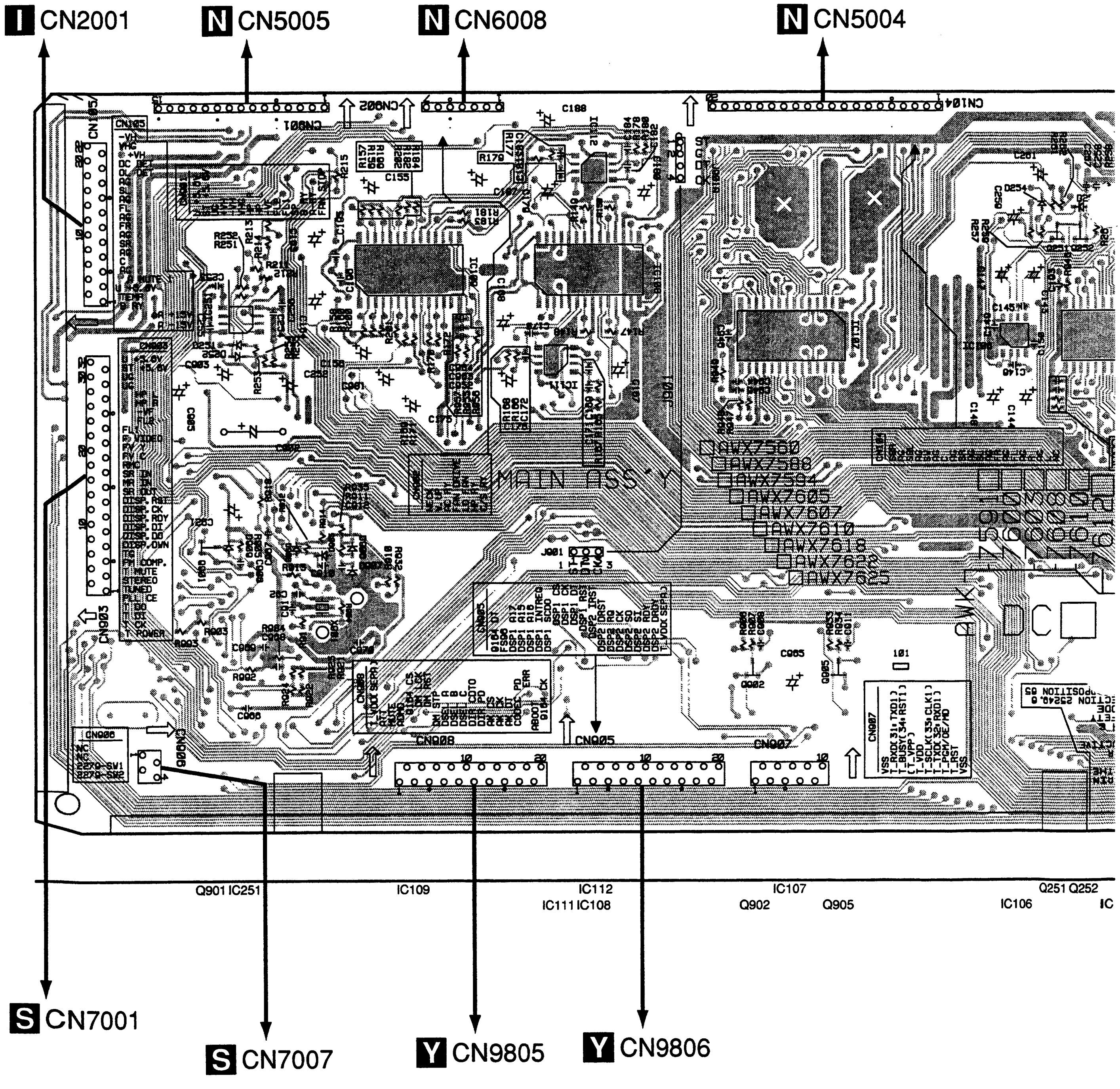

C INPUT ASSY
CMK-P3X
E
CN1554
E
CN1553
CN1001
JA1051
C1051
MROUT
VCR1IN
VCR1OUT
VCR2IN
VCR2OUT
TV/SAT
DVD/LD
Q1002
Q1001
R1001
R1014
R1013
R1018
R1017
R1051
D1051
R1016
R1015
V2OUT
V1OUT
DVD
TV
VCR2
VCR1
AWX7585
AWX7600
AWX7573

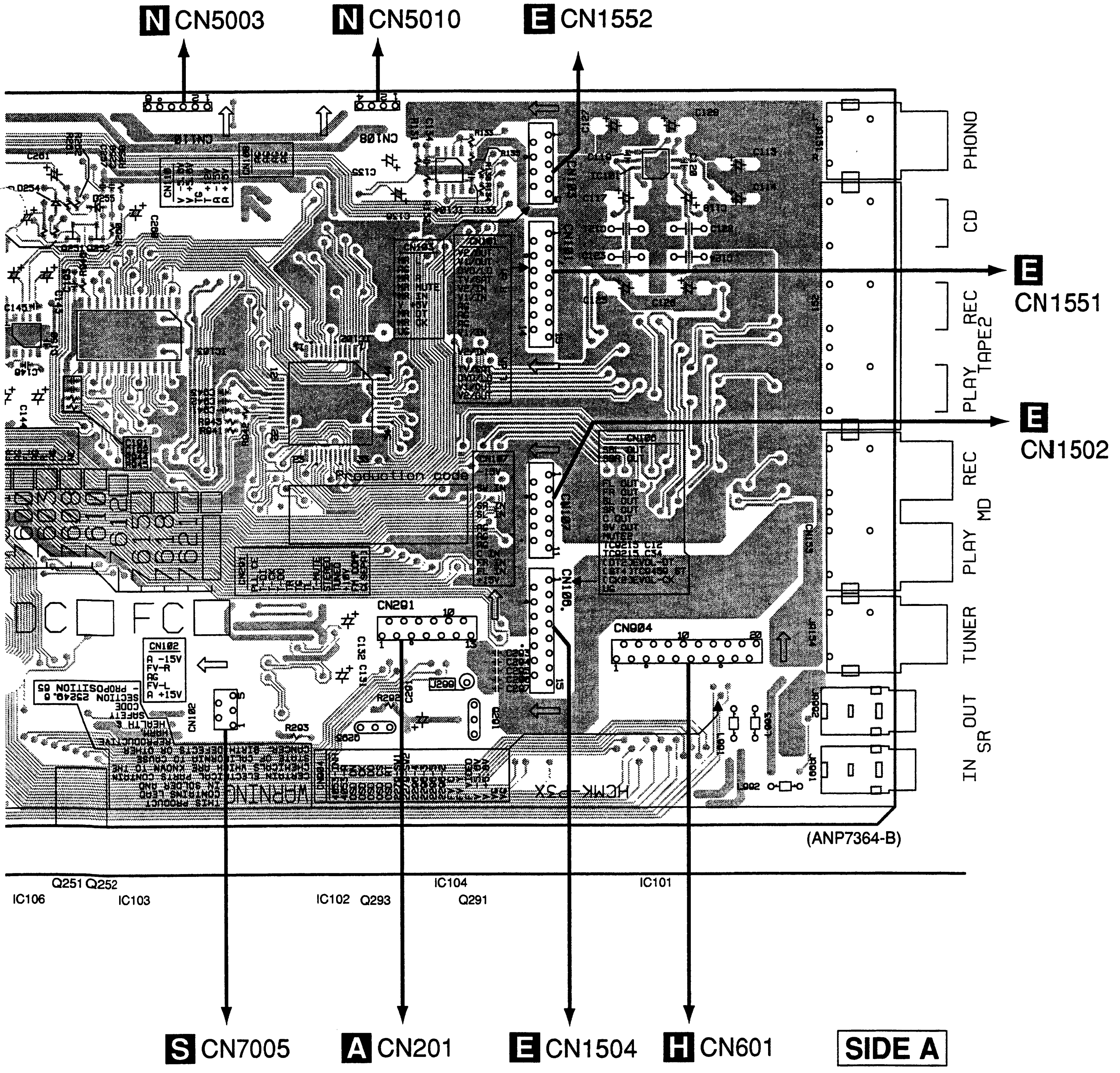
(ANP7361-A)

SIDE A

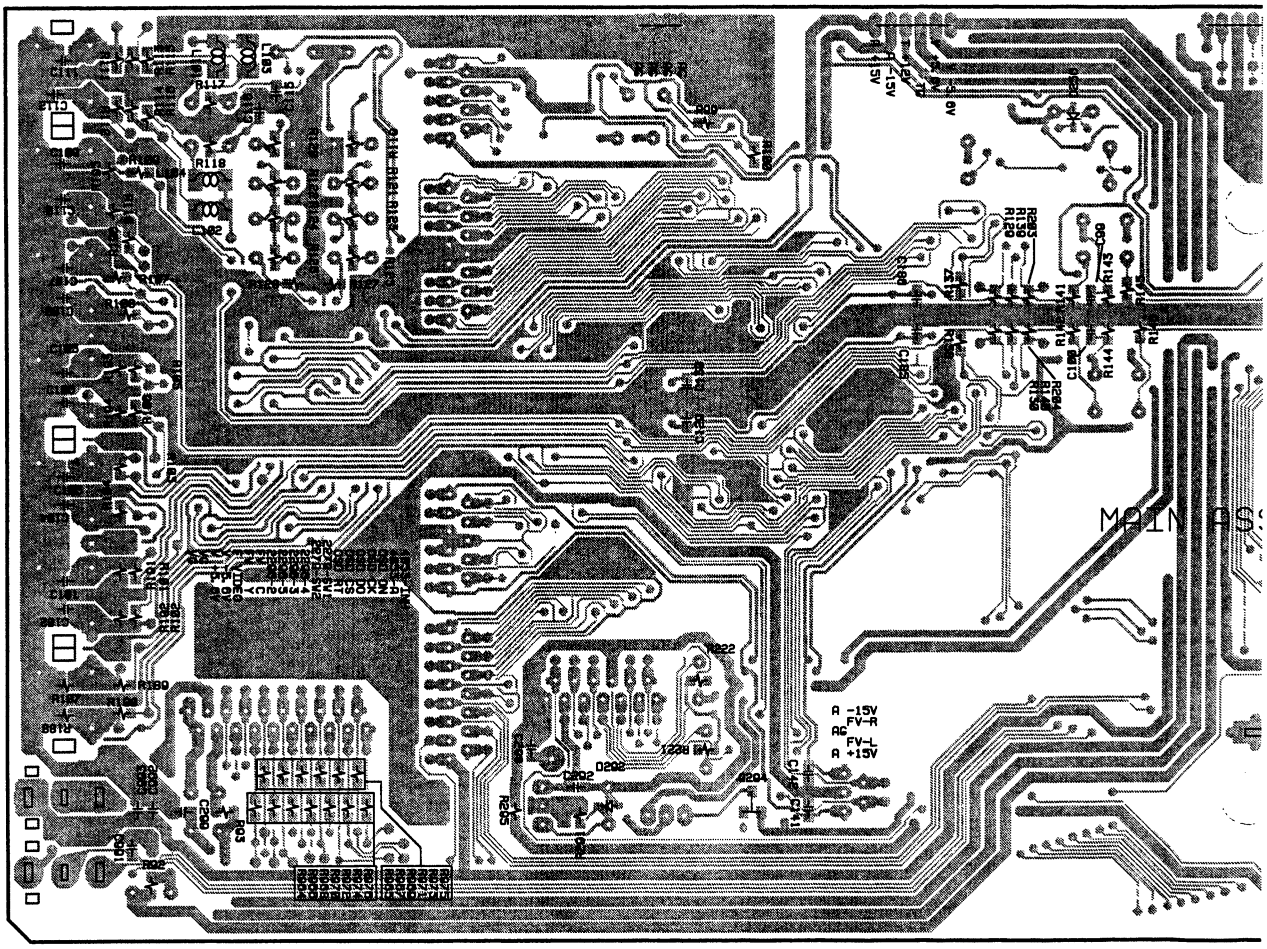
4.4 MAIN CONTROL ASSY

D MAIN CONTROL ASSY

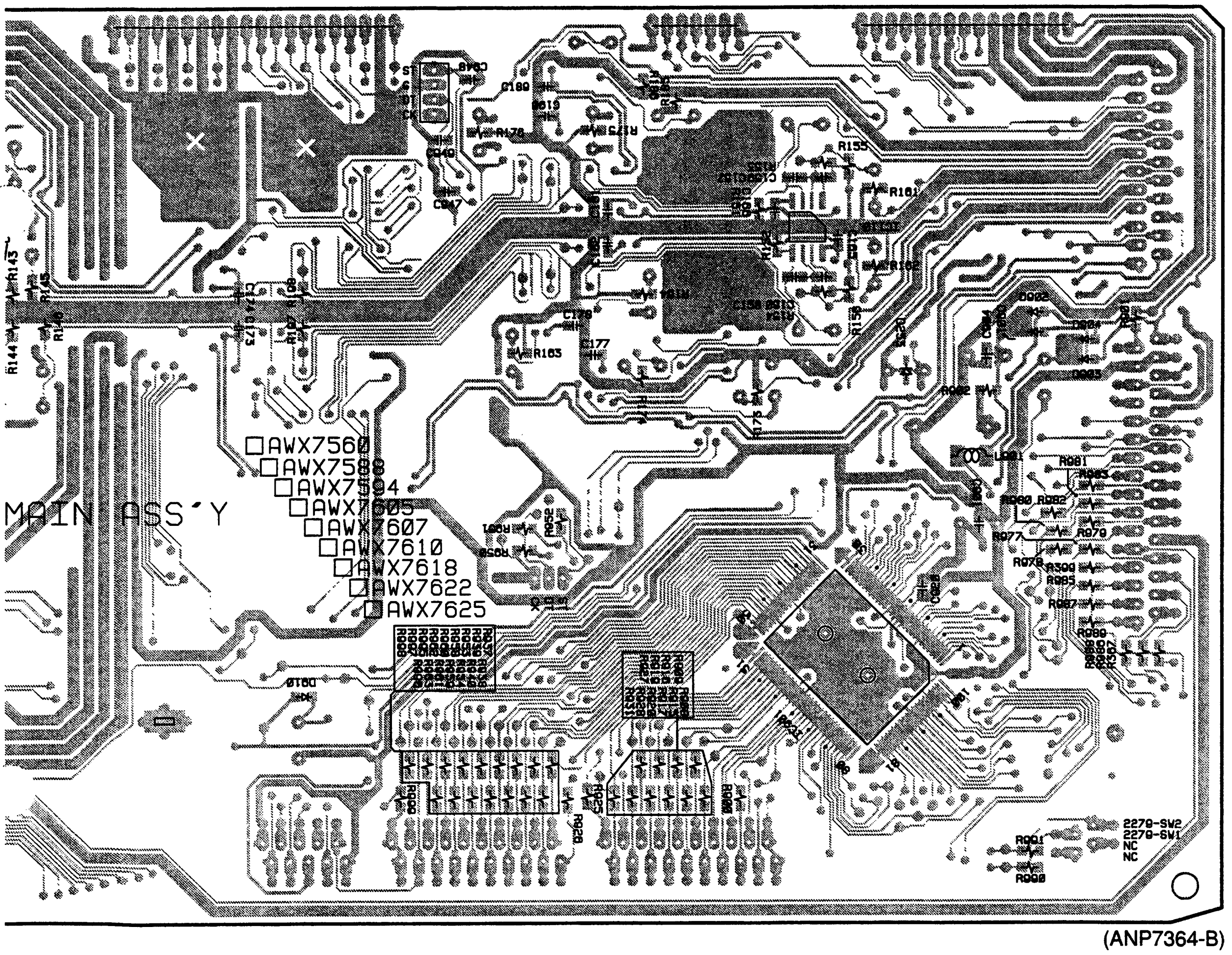

I CN2001
N CN5005
N CN6008
N CN5004
CN105
CN101
CN902
CN104
MAIN ASS'Y
AWX7560
AWX7588
AWX7594
AWX7605
AWX7607
AWX7610
AWX7618
AWX7628
AWX7625
CN903
CN906
CN908
CN905
CN907
CN909
Q901 IC251
IC109
IC112
IC111 IC108
IC107
Q902
Q905
Q251 Q252
IC106
IC
S CN7001
S CN7007
Y CN9805
Y CN9806


N CN5003
N CN5010
E CN1552
E CN1551
E CN1502
PHONO
CD
REC
PLAY
TAPE2
REC
PLAY
MD
TUNER
OUT
IN
SR
CN201
CN904
CN102
CN108
CN110
CN101
CN103
CN106
CN107
Production code
WARNING
HCMK-P3X
(ANP7364-B)
Q251 Q252
IC106
IC103
IC102
Q293
IC104
Q291
IC101
S CN7005
A CN201
E CN1504
H CN601
SIDE A

D MAIN CONTROL ASSY


R117
L183
R118
L182
C113
R180
R187
R188
R03
R02
C290
R222
R221
D292
C292
R205
Q294
A -15V
AG FV-R
FV-L
A +15V
C141
R203
R130
R129
R141
R143
R144
C90
R150
R204
+15V
-15V
MAIN ASS

Q294


MAIN ASS'Y
☐AWX7560
☐AWX7588
☐AWX7594
☐AWX7605
☐AWX7607
☐AWX7610
☐AWX7618
☐AWX7622
☐AWX7625
R155
R161
R162
R163
C177
C178
C180
R176
R173
R174
R144
R145
R143
R981
R977
R979
R990
R991
R998
D024
D025
D023
2279-SW2
2279-SW1
NC
NC

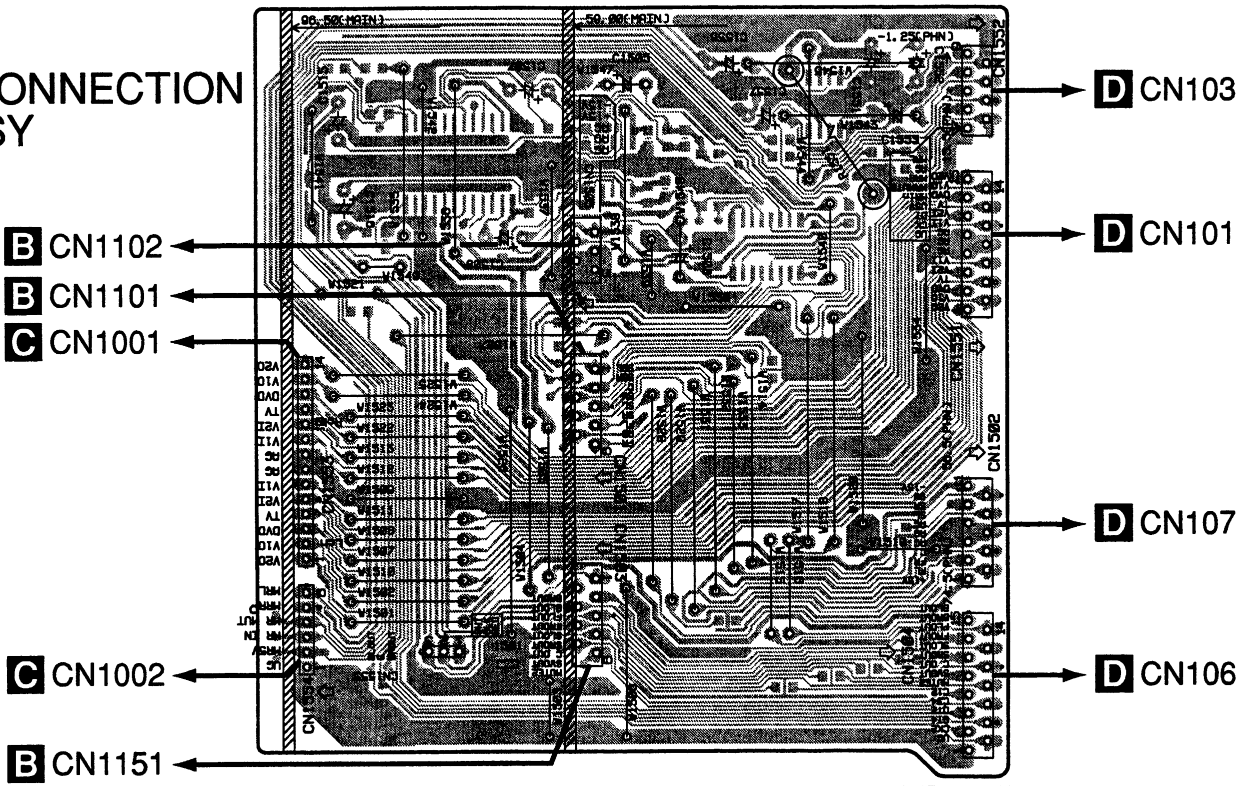
(ANP7364-B)

IC110 IC901

SIDE B

4.5 A-CONNECTION ASSY

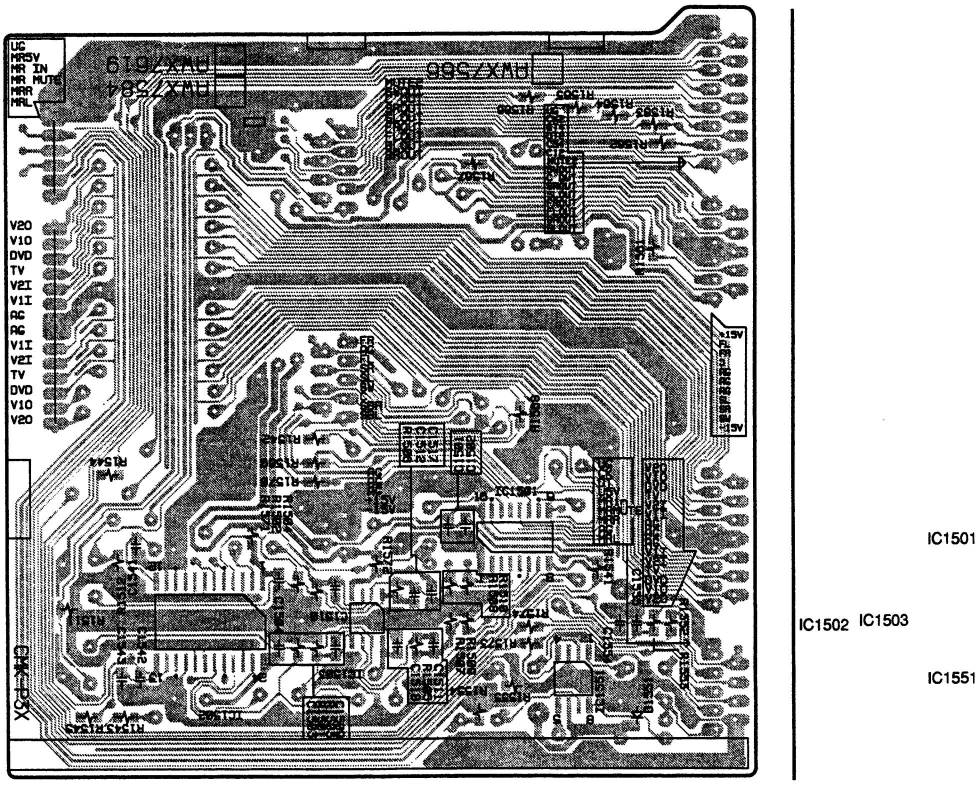
E
A-CONNECTION
ASSY


B CN1102
B CN1101
C CN1001
C CN1002
B CN1151
D CN103
D CN101
D CN107
D CN106
V2O
V1O
DVD
TV
V2I
V1I
RC
RC
V1I
V2I
TV
DVD
V1O
V2O
CN1552
CN1551
CN1502

(ANP7360-A)

SIDE A

E
A-CONNECTION
ASSY

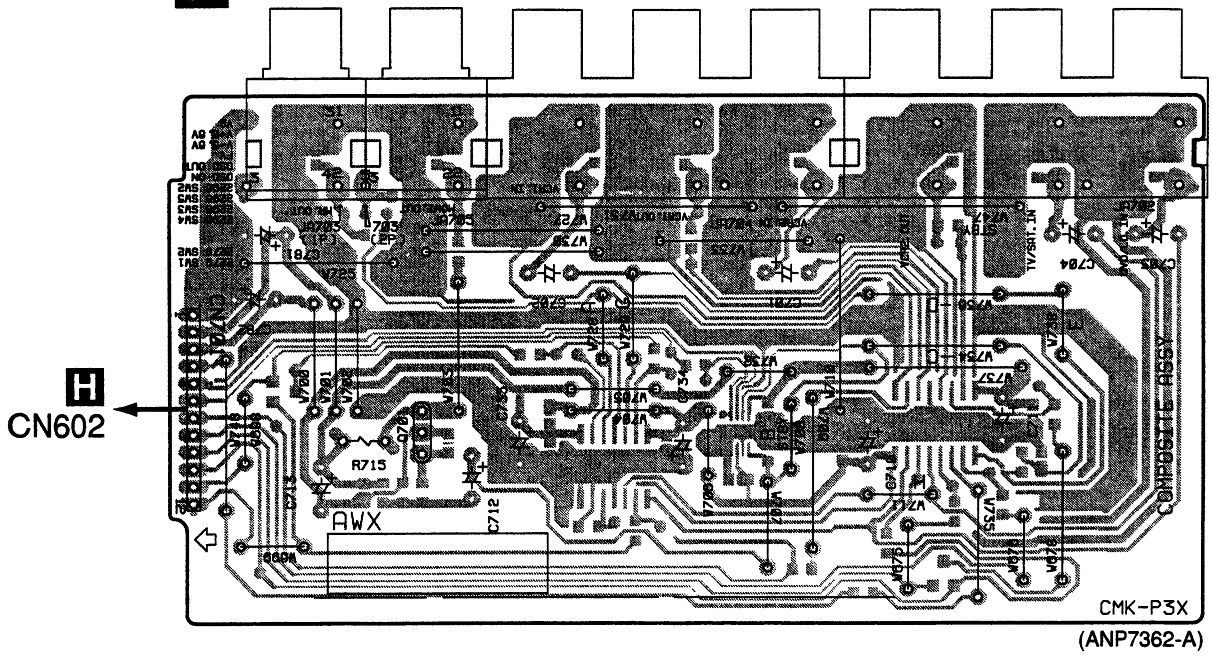

UC
MR5V
MR IN
MR MUTE
MRR
MRL
V2O
V1O
DVD
TV
V2I
V1I
RC
RC
V1I
V2I
TV
DVD
V1O
V2O
IC1501
IC1502
IC1503
IC1551

(ANP7360-A)

SIDE B

4.6 COMPOSITE ASSY

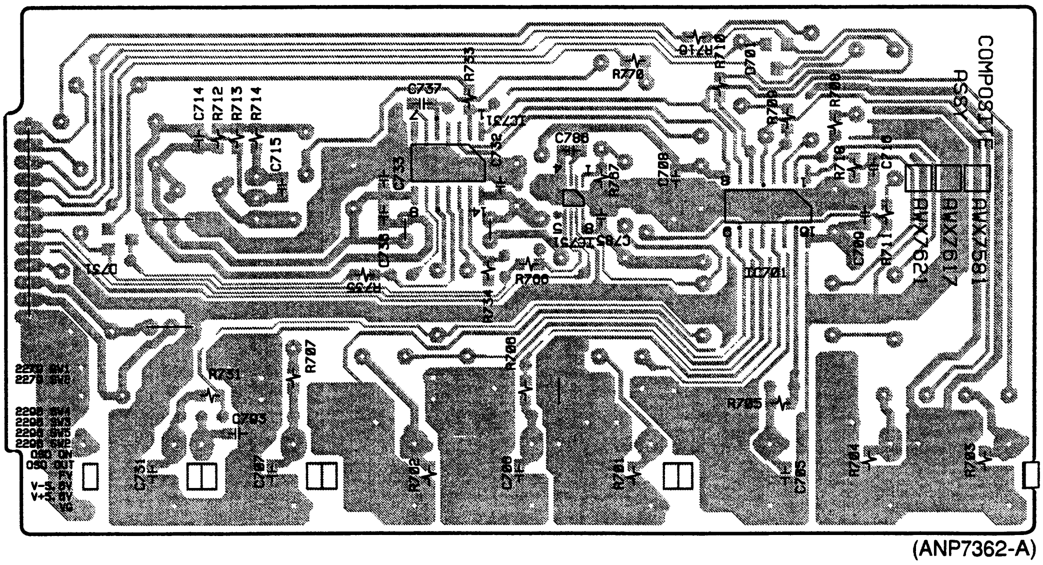
F COMPOSITE ASSY


H
CN602
R715
AWX
C712
C713
COMPOSITE ASSY
CMK-P3X
(ANP7362-A)

Q701

SIDE A

F COMPOSITE ASSY

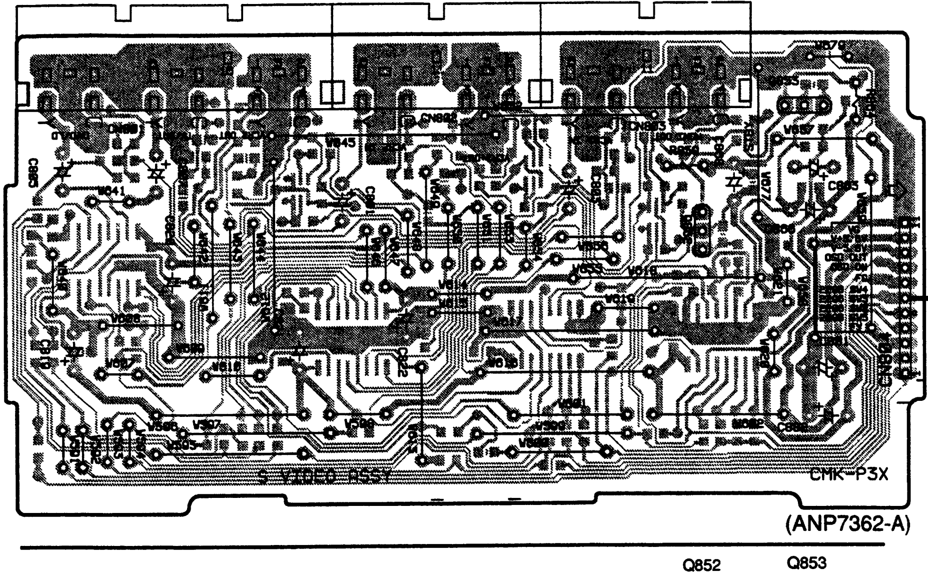

C714
R712
R713
R714
C715
C737
R733
C733
C732
C788
R707
C708
R770
R710
D701
R708
R716
C710
IC701
COMPOSITE ASSY
AWX7581
AWX7621
R731
C703
C731
C707
R702
C700
R701
C705
R704
R705
R785
R706
R734
R760
(ANP7362-A)

IC731 IC751 IC701

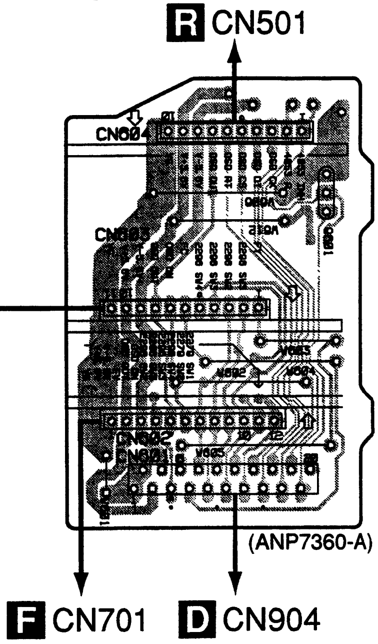
SIDE B

4.7 S VIDEO and V-CONNECTION ASSYS

G S VIDEO ASSY

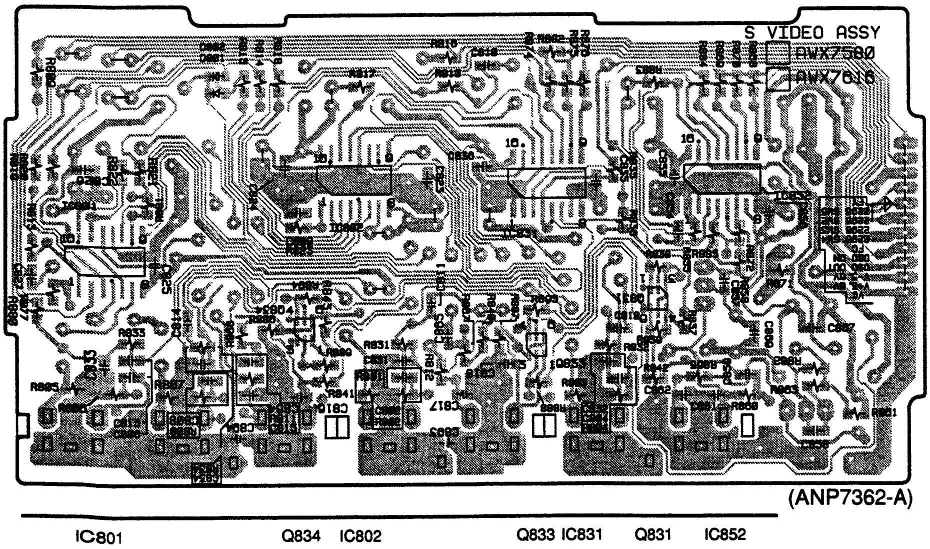

S VIDEO ASSY
CMK-P3X
CN804
(ANP7362-A)
Q852
Q853

H V-CONNECTION ASSY

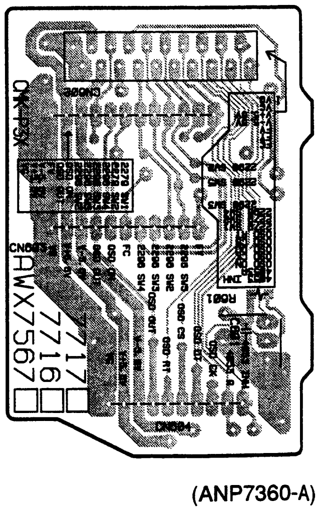

R CN501
CN604
CN603
CN602
CN601
(ANP7360-A)
F CN701
D CN904

SIDE A

G S VIDEO ASSY


S VIDEO ASSY
AWX7580
AWX7616
(ANP7362-A)
IC801
Q834
IC802
Q833
IC831
Q831
IC852

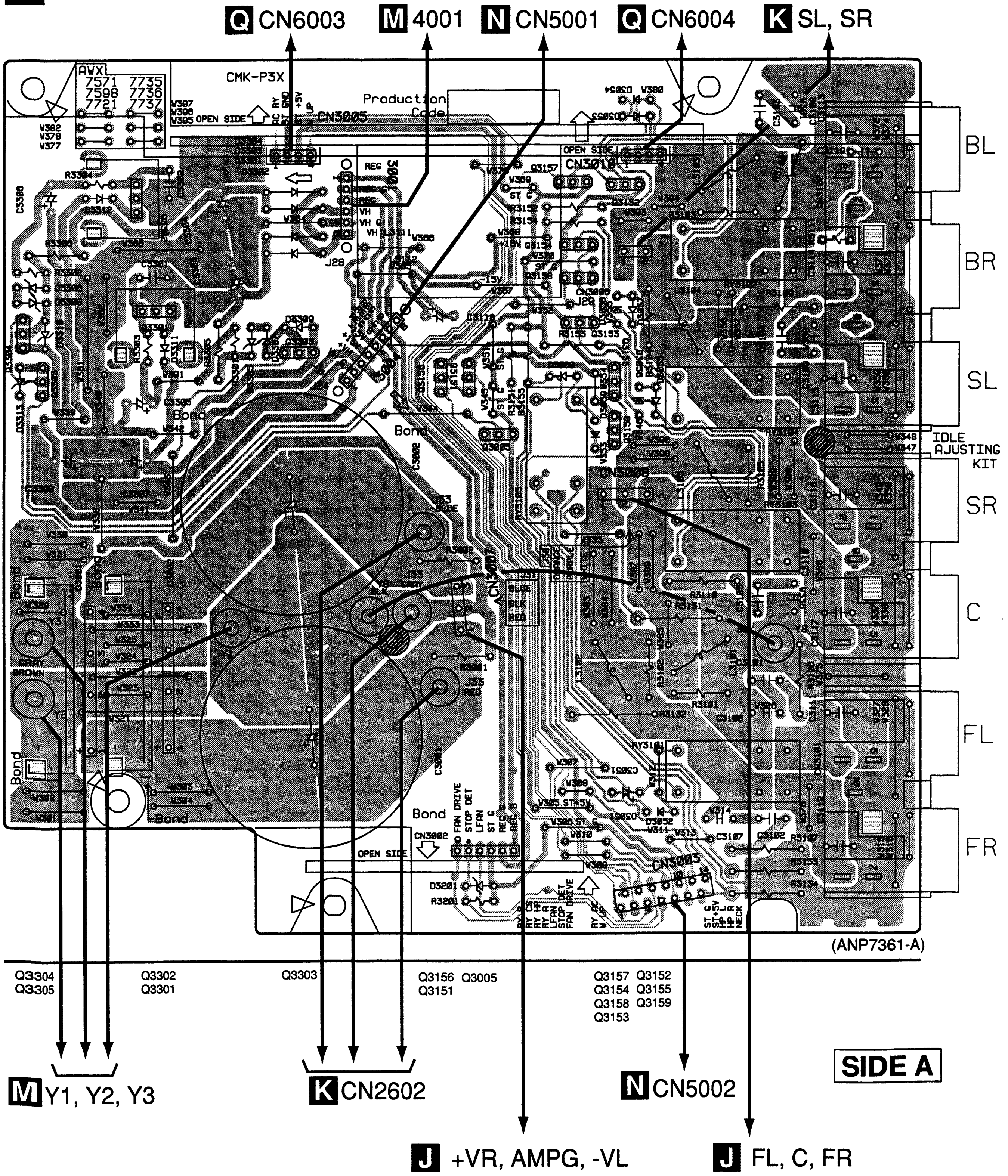
H V-CONNECTION ASSY


CMK-P3X
AWX7567
7716
7717
(ANP7360-A)

SIDE B

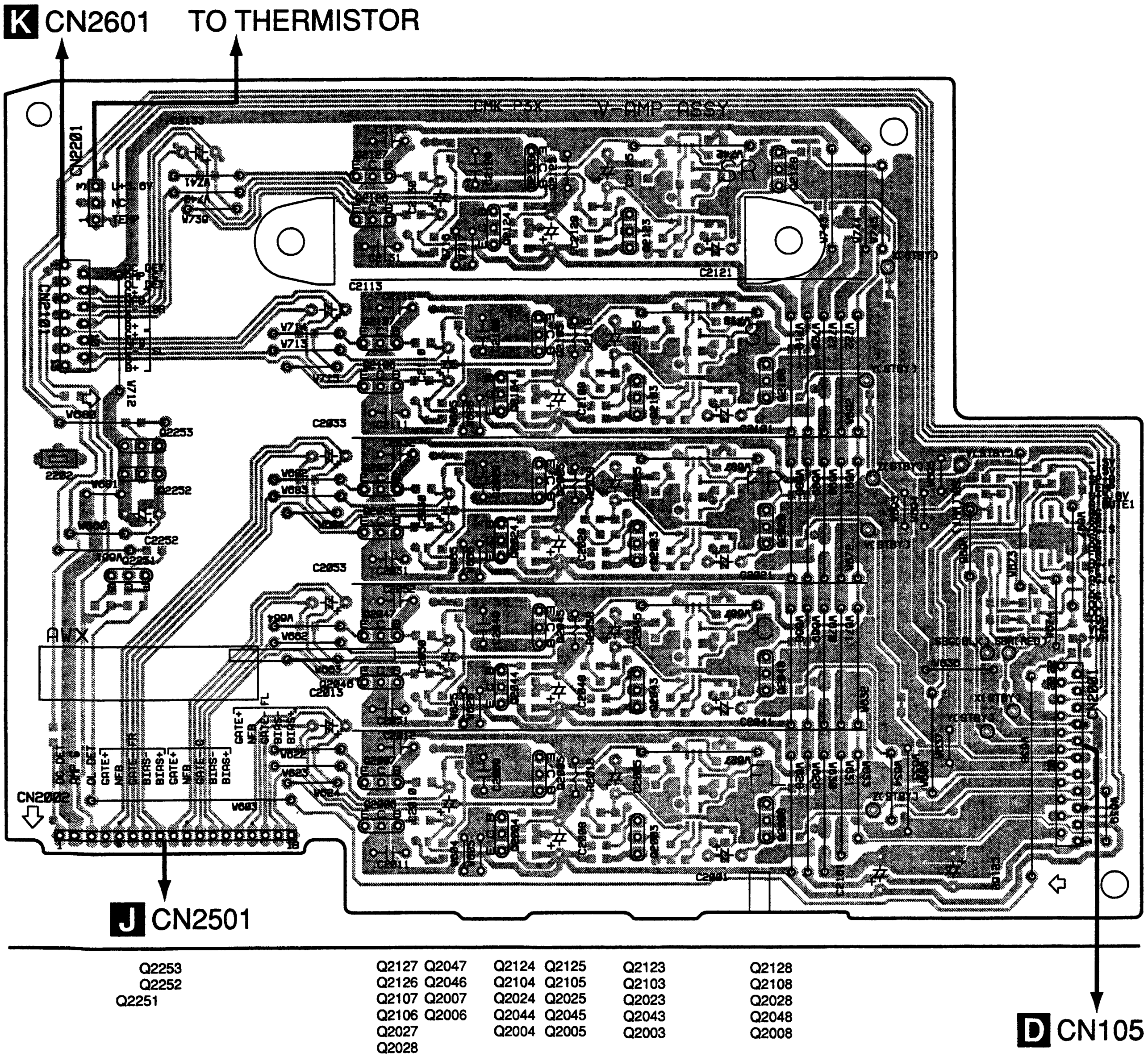
4.8 SP/PS ASSY

L SP/PS ASSY


Q CN6003
M 4001
N CN5001
Q CN6004
K SL, SR
AWX
7571 7735
7598 7736
7721 7737
CMK-P3X
Production Code
CN3005
OPEN SIDE
CN3010
CN3008
CN3007
CN3002
CN3003
BL
BR
SL
IDLE AJUSTING KIT
SR
C
FL
FR
Bond
J33 BLUE
J33 GRAY
J33 RED
BLK
GRAY
BROWN
(ANP7361-A)
Q3304
Q3305
Q3302
Q3301
Q3303
Q3156 Q3005
Q3151
Q3157 Q3152
Q3154 Q3155
Q3158 Q3159
Q3153
M Y1, Y2, Y3
K CN2602
N CN5002
SIDE A
J +VR, AMPG, -VL
J FL, C, FR
A
B
C
D

4.9 V-AMP ASSY

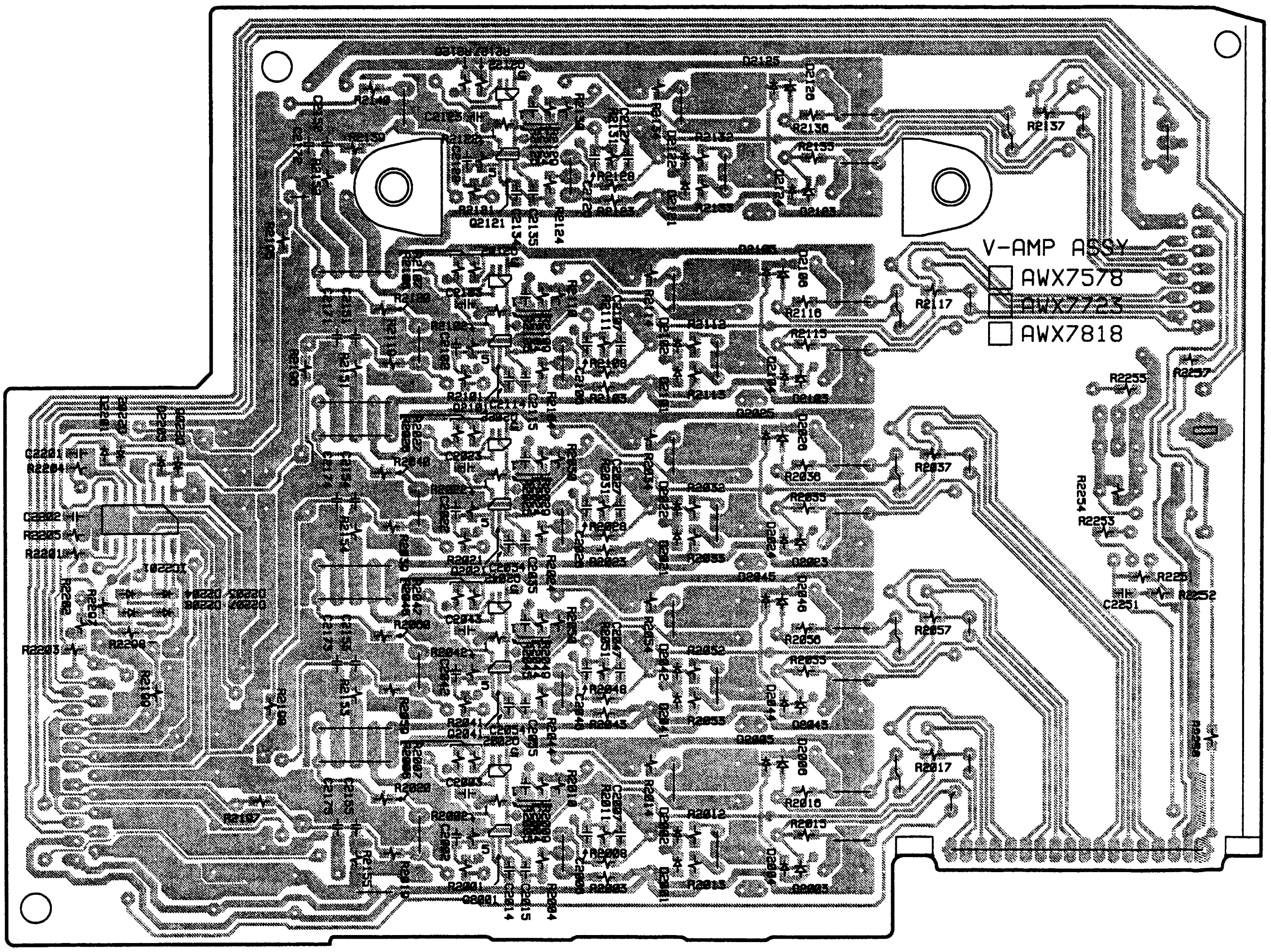
I V-AMP ASSY


K CN2601
TO THERMISTOR
CN2201
CN2101
C2113
C2121
C2833
C2853
C2815
AWX
CN2002
J CN2501
D CN105
Q2253
Q2252
Q2251
Q2127 Q2047
Q2126 Q2046
Q2107 Q2007
Q2106 Q2006
Q2027
Q2028
Q2124 Q2125
Q2104 Q2105
Q2024 Q2025
Q2044 Q2045
Q2004 Q2005
Q2123
Q2103
Q2023
Q2043
Q2003
Q2128
Q2108
Q2028
Q2048
Q2008

(ANP7362-A)

SIDE A

I V-AMP ASSY


V-AMP ASSY
☐ AWX7578
☐ AWX7723
☐ AWX7818

IC2201

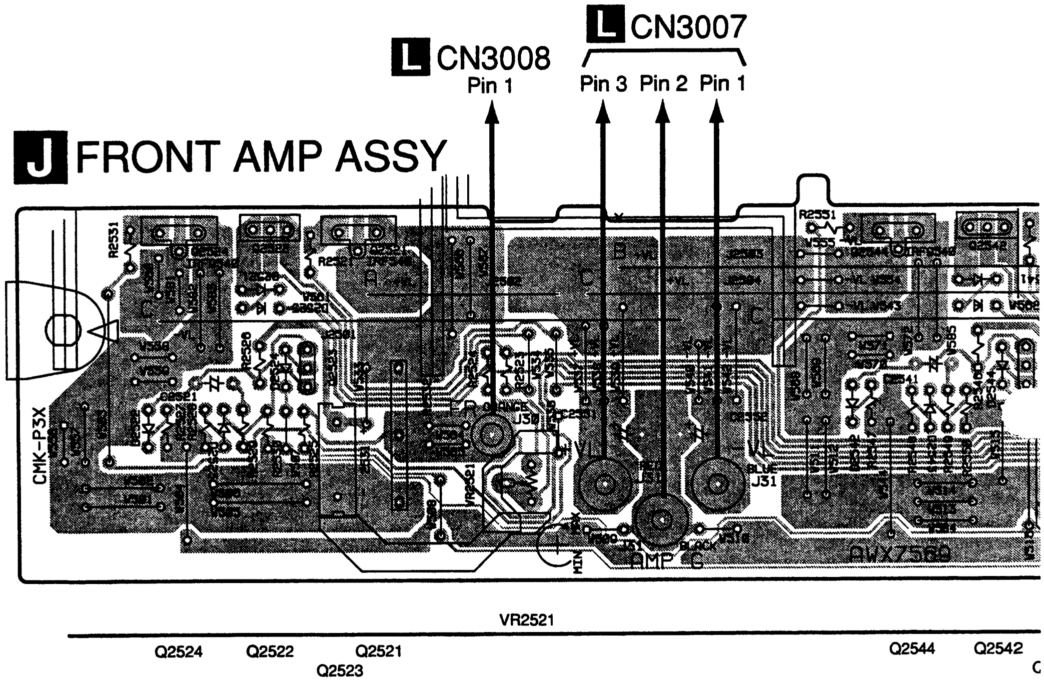
Q2122 Q2042
Q2121 Q2041
Q2101 Q2002
Q2022 Q2001
Q2021

(ANP7362-A)

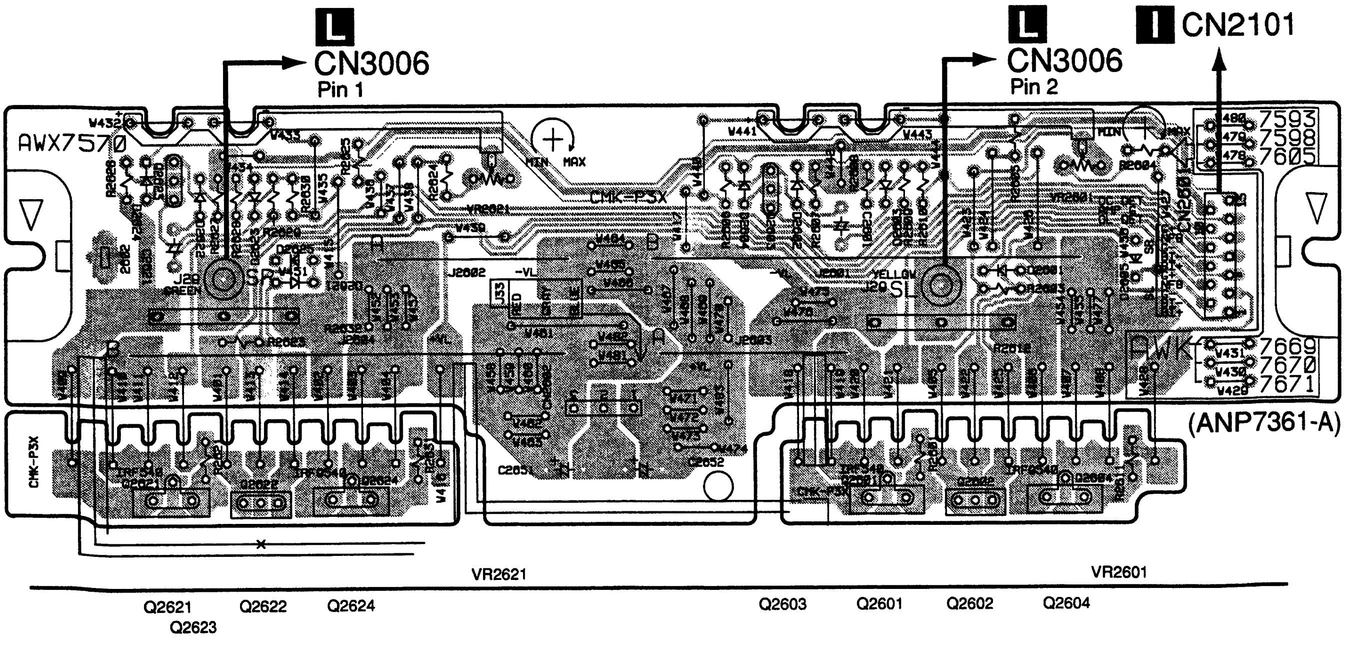
SIDE B

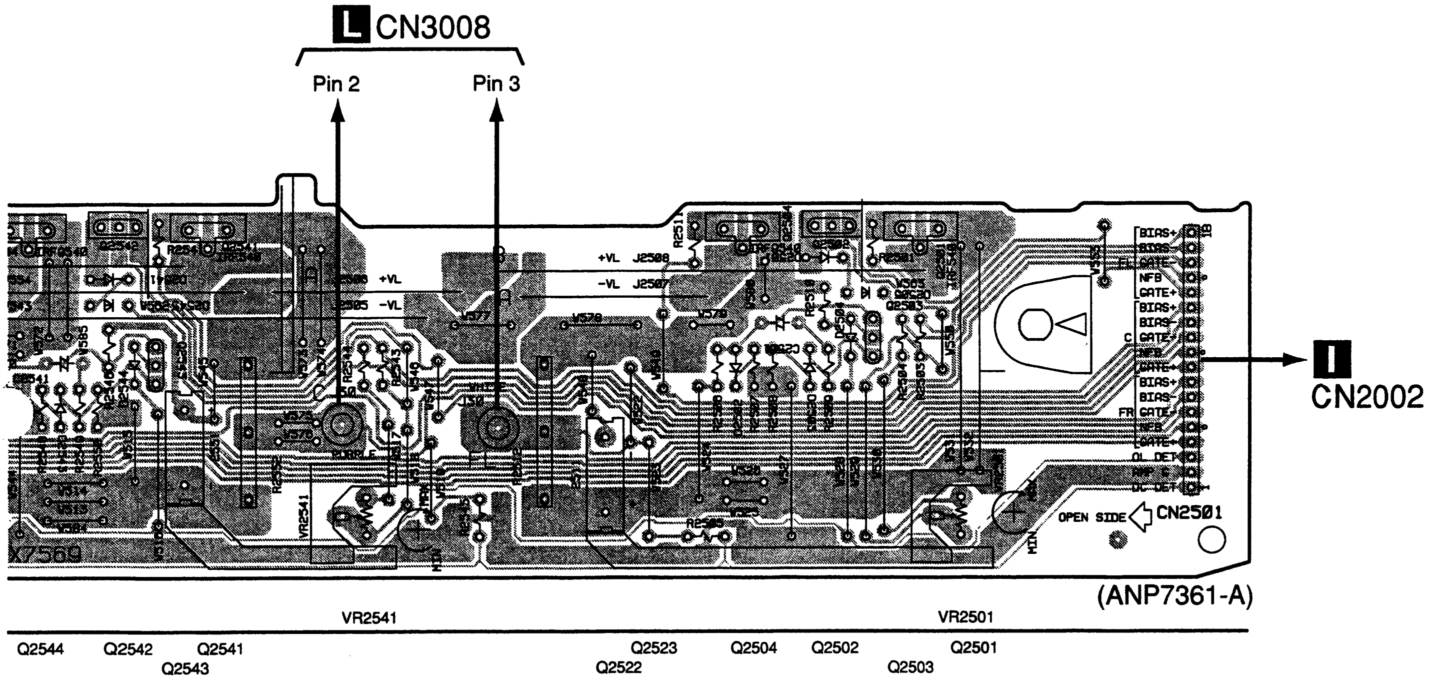
4.10 FRONT AMP and REAR AMP ASSYS

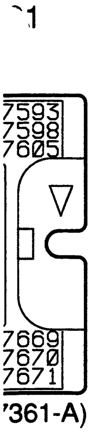
J FRONT AMP ASSY


L CN3008
Pin 1
L CN3007
Pin 3
Pin 2
Pin 1
CMK-P3X
R2531
J31
J32
BLUE
ORANGE
RED
BLACK
MIN
AMP C
AWX7569
VR2521
Q2524
Q2522
Q2521
Q2523
Q2544
Q2542

K REAR AMP ASSY

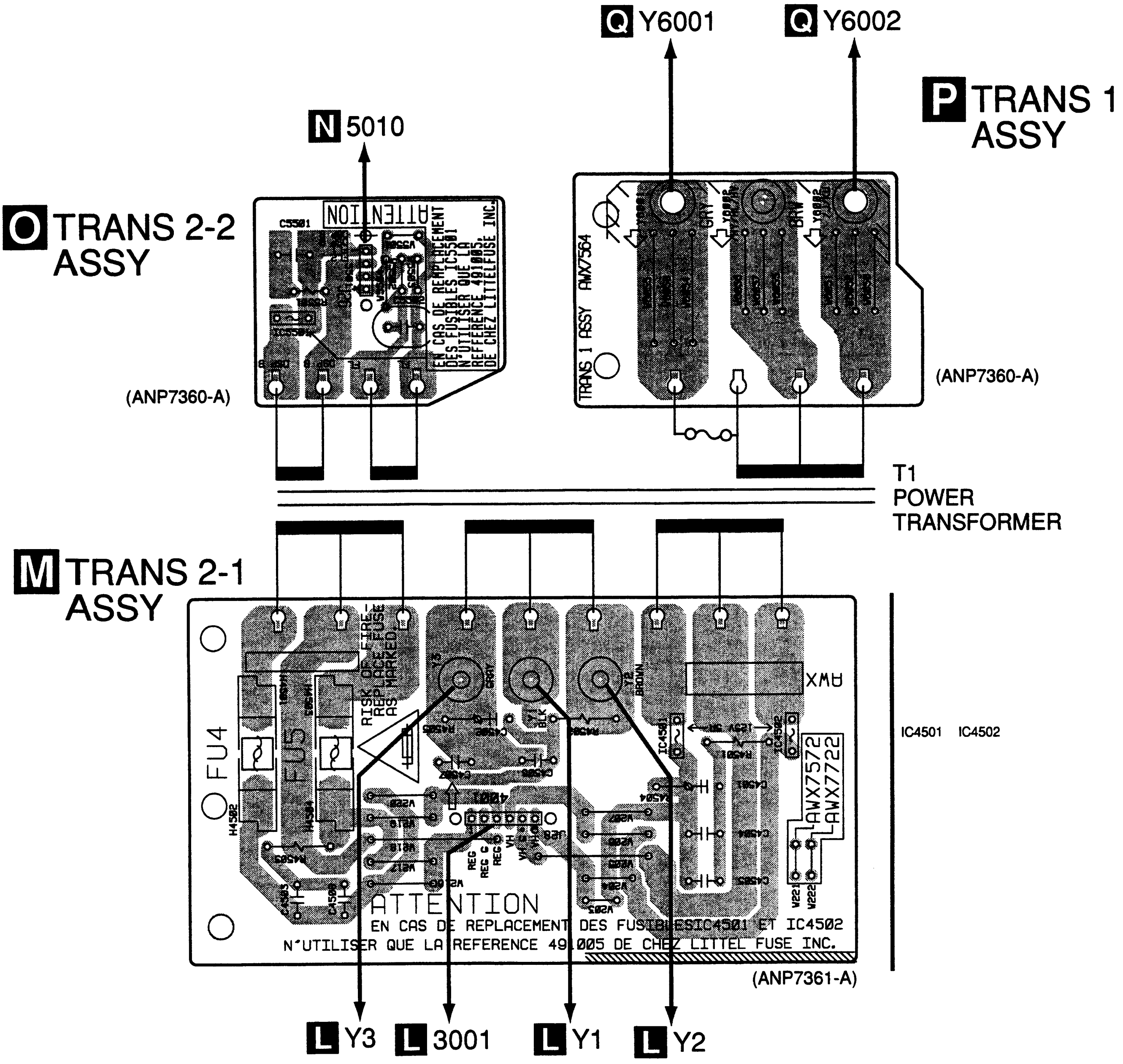

L CN3006
Pin 1
L CN3006
Pin 2
I CN2101
AWX7570
MIN
MAX
CMK-P3X
J28
GREEN
SR
J29
YELLOW
SL
J33
RED
BLUE
J2602
J2601
J2603
J2604
-VL
+VL
VR2621
VR2601
C2651
C2652
AWK
7593
7598
7605
7669
7670
7671
(ANP7361-A)
Q2621
Q2622
Q2624
Q2623
Q2603
Q2601
Q2602
Q2604


L CN3008
Pin 2
Pin 3
+VL J2508
-VL J2507
+VL
-VL
VR2541
FL
BIAS+
BIAS-
GATE+
NFB
GATE+
C
BIAS+
BIAS-
GATE+
NFB
GATE+
FR
BIAS+
BIAS-
GATE+
NFB
GATE+
OL DET
AMP C
DC DET
OPEN SIDE
CN2501
I
CN2002
(ANP7361-A)
VR2541
VR2501
Q2544
Q2542
Q2541
Q2543
Q2523
Q2522
Q2504
Q2502
Q2503
Q2501


'361-A)

SIDE A

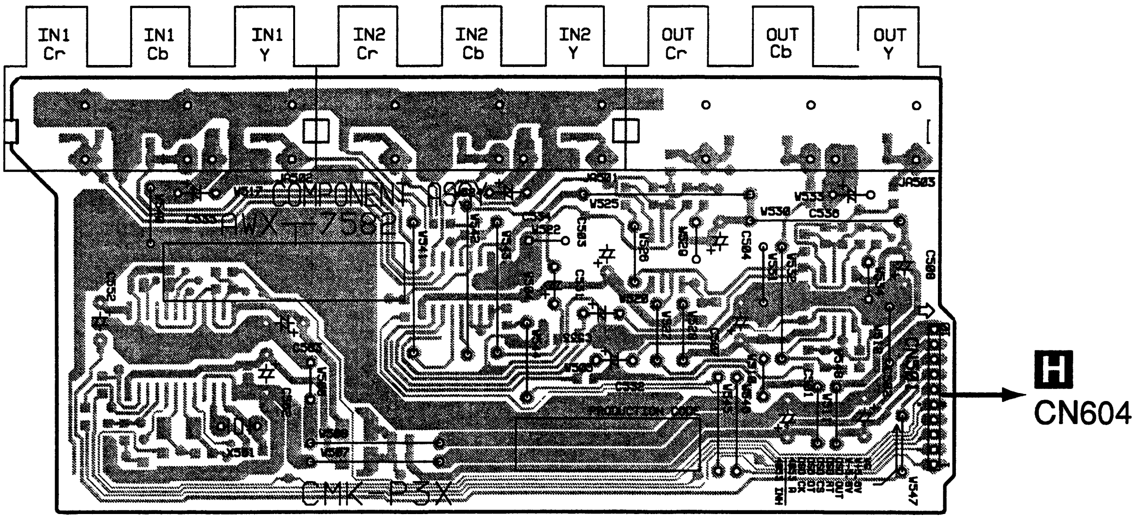
4.11 TRANS 2-1, TRANS 2-2 and TRANS 1 ASSYS


Q Y6001
Q Y6002
P TRANS 1 ASSY
N 5010
O TRANS 2-2 ASSY
ATTENTION
EN CAS DE REMPLACEMENT DES FUSIBLES IC5501 N'UTILISER QUE LA REFERENCE 491005 DE CHEZ LITTELFUSE INC.
C5501
(ANP7360-A)
TRANS 1 ASSY AWX7564
GRY
BRN
(ANP7360-A)
T1 POWER TRANSFORMER
M TRANS 2-1 ASSY
FU4
FU5
RISK OF FIRE-REPLACE FUSE AS MARKED.
GRAY
BLK
BROWN
AWX
IC4501
IC4502
AWX7572
AWX7722
IC4501 IC4502
ATTENTION
EN CAS DE REPLACEMENT DES FUSIBLES IC4501 ET IC4502 N'UTILISER QUE LA REFERENCE 491005 DE CHEZ LITTEL FUSE INC.
(ANP7361-A)
L Y3
L 3001
L Y1
L Y2

SIDE A

4.12 COMPONENT ASSY

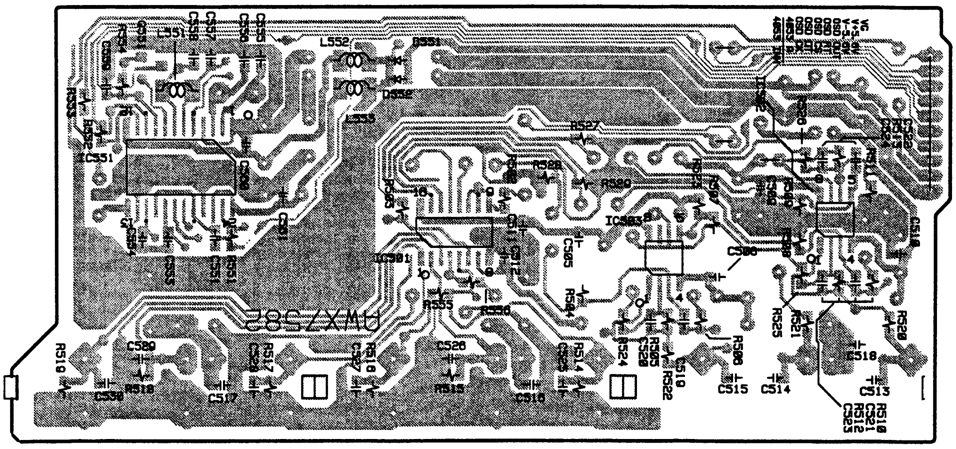
R COMPONENT ASSY


IN1 Cr
IN1 Cb
IN1 Y
IN2 Cr
IN2 Cb
IN2 Y
OUT Cr
OUT Cb
OUT Y
COMPONENT ASSY
PWX-7582
CMK P3X
PRODUCTION CODE
H
CN604

(ANP7363-A)

SIDE A

R COMPONENT ASSY


L551
L552
L553
IC551
IC501
IC503
IC502
R527
C505
C506
C509
C510
C513
C514
C515
C516
C517
C518
C520
C526
C530
R510
R513
R514
R515
R516
R517
R519
R520
R521
R522
R524
R525
R526
R528
R553
R556
PWX7582

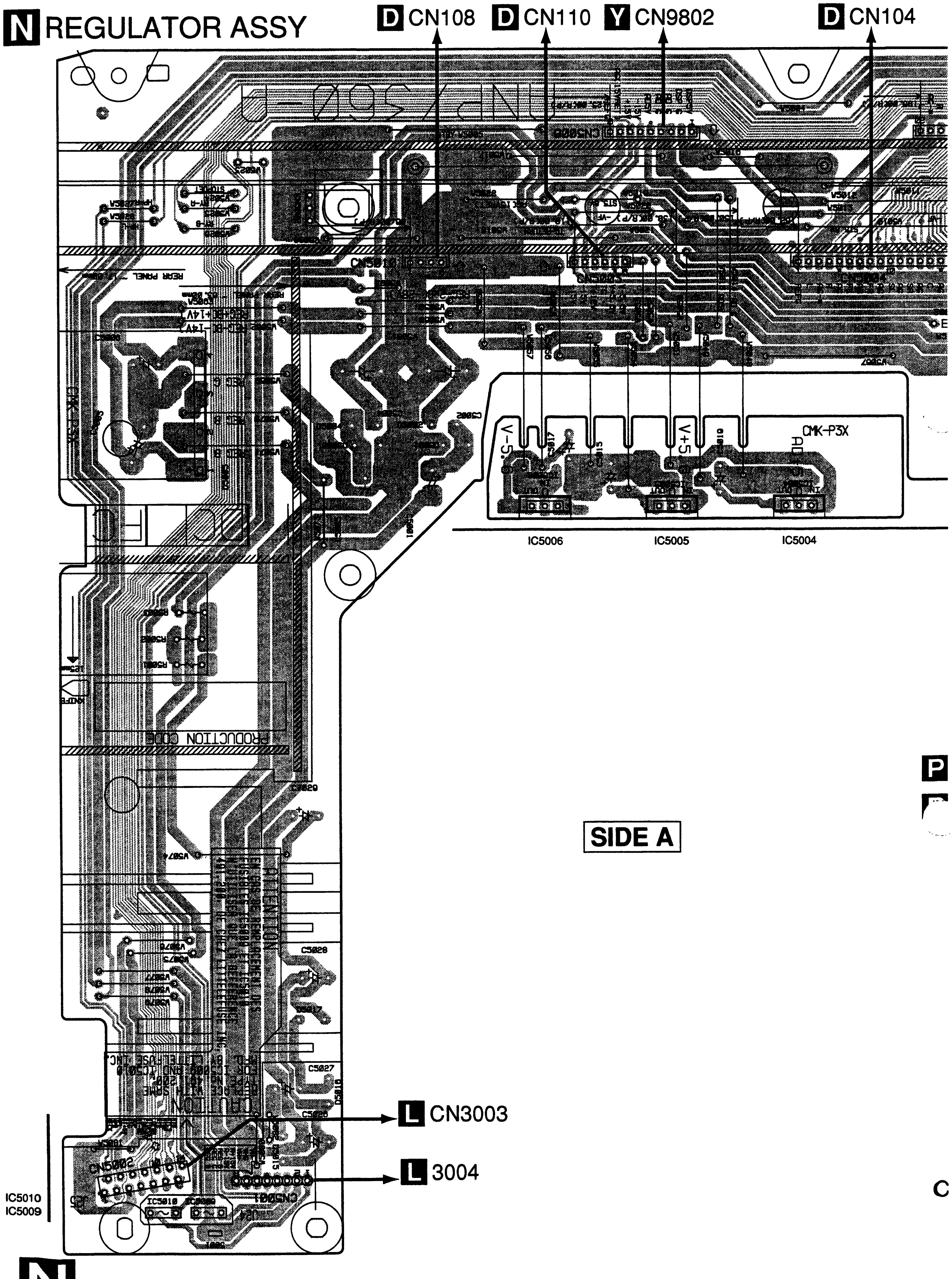
(ANP7363-A)

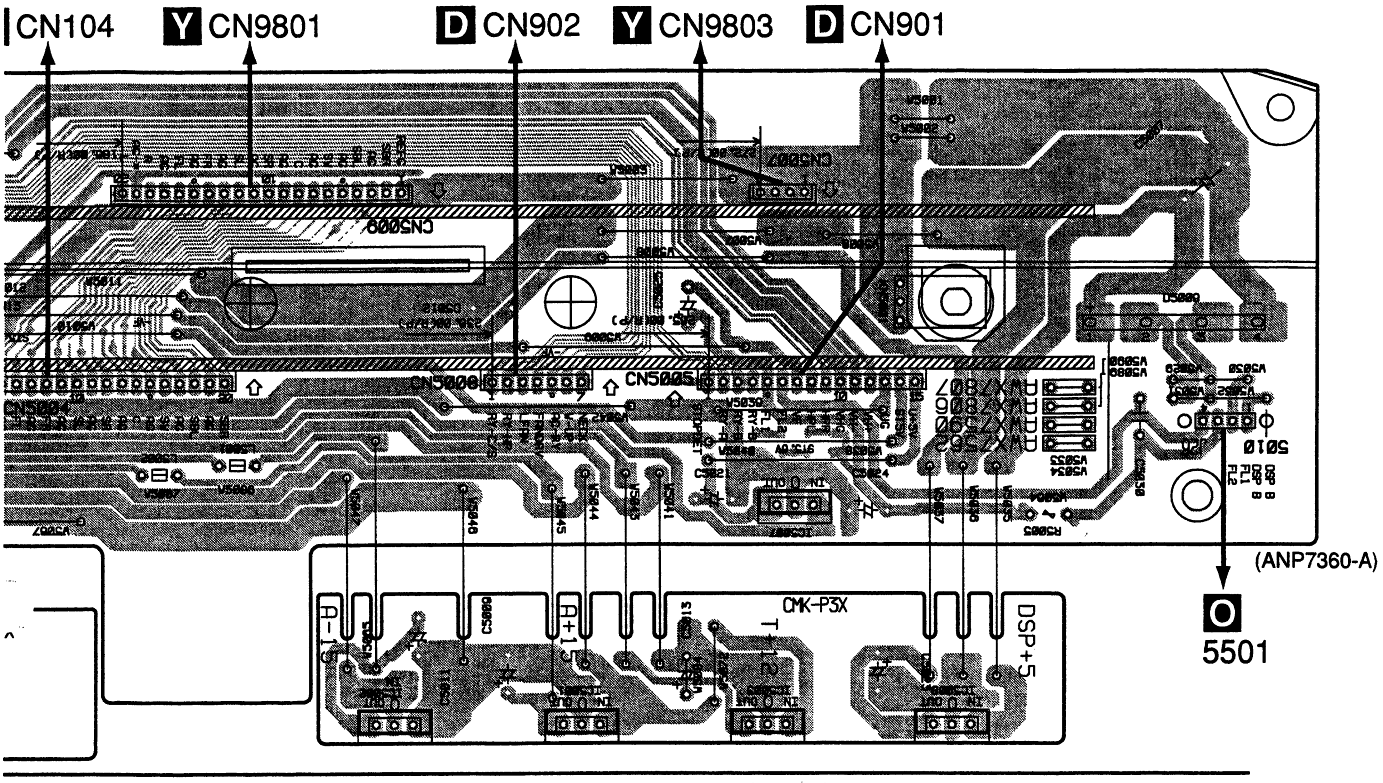
IC551 IC501 IC503 IC502

SIDE B

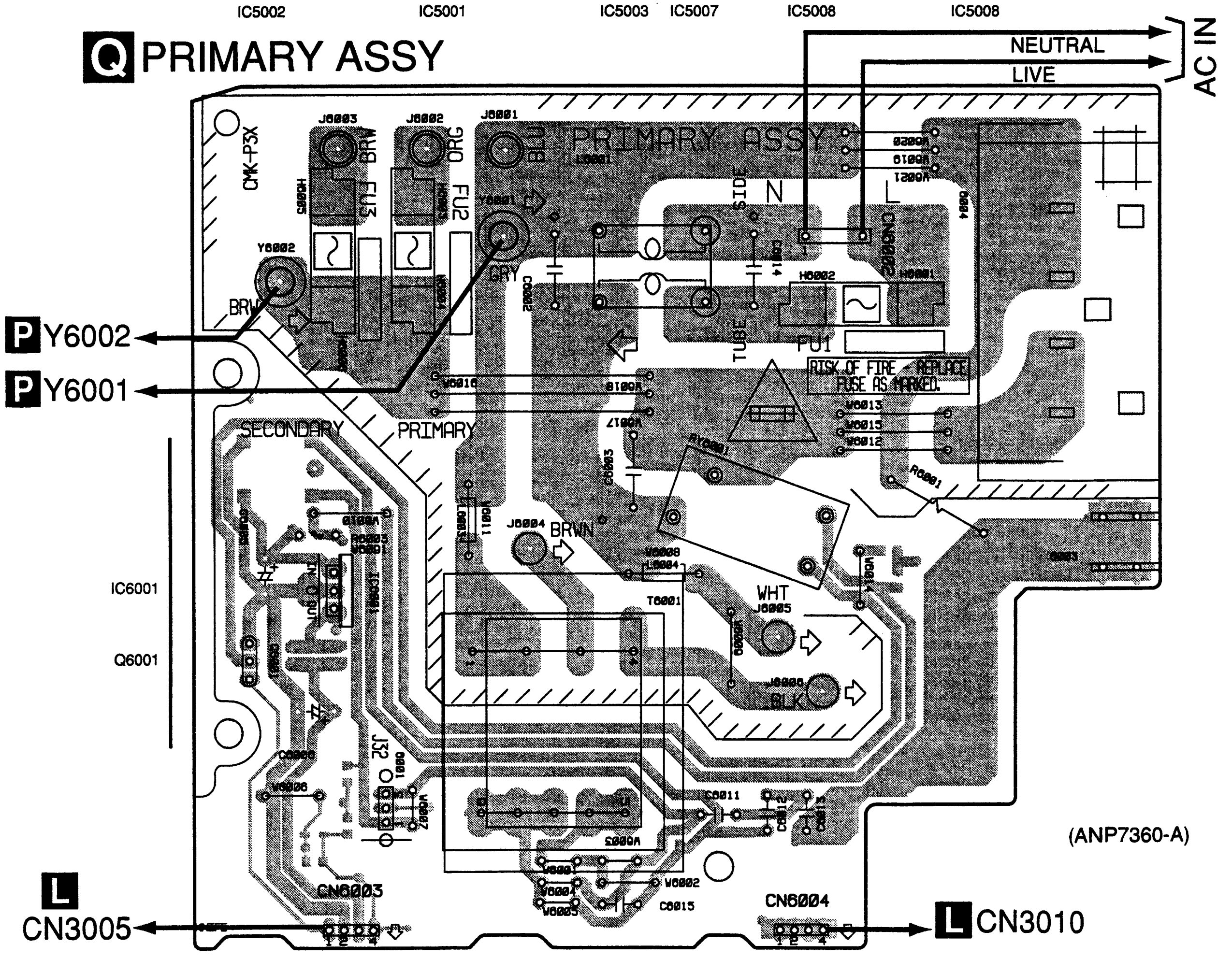
VSX-35TX, VSX-33TX

4.13 REGULATOR and PRIMARY ASSYS


N REGULATOR ASSY
D CN108
D CN110
Y CN9802
D CN104
A
B
C
D
CN5010
CN5005
REAR PANEL
CMK-P3X
V-5
V+5
IC5006
IC5005
IC5004
PRODUCTION CODE
C5020
C5028
C5027
C5026
SIDE A
L CN3003
L 3004
CN5002
CN5001
IC5010
IC5009
P
C

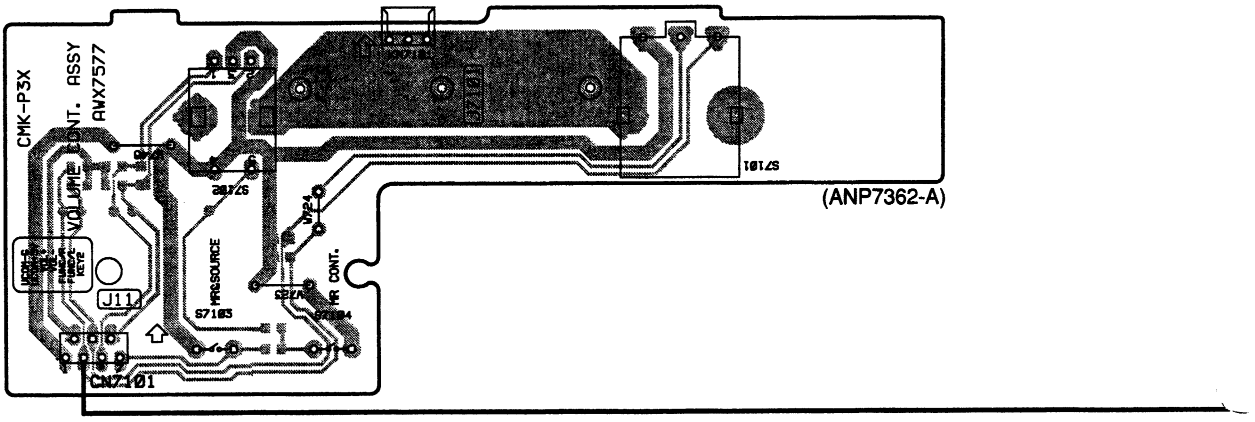

CN104
Y CN9801
D CN902
Y CN9803
D CN901
CN5009
CN5008
CN5006
CN5005
CN5007
CMK-P3X
A-15
A+15
T+12
DSP+5
(ANP7360-A)
O
5501
IC5002
IC5001
IC5003
IC5007
IC5008
IC5008

Q PRIMARY ASSY

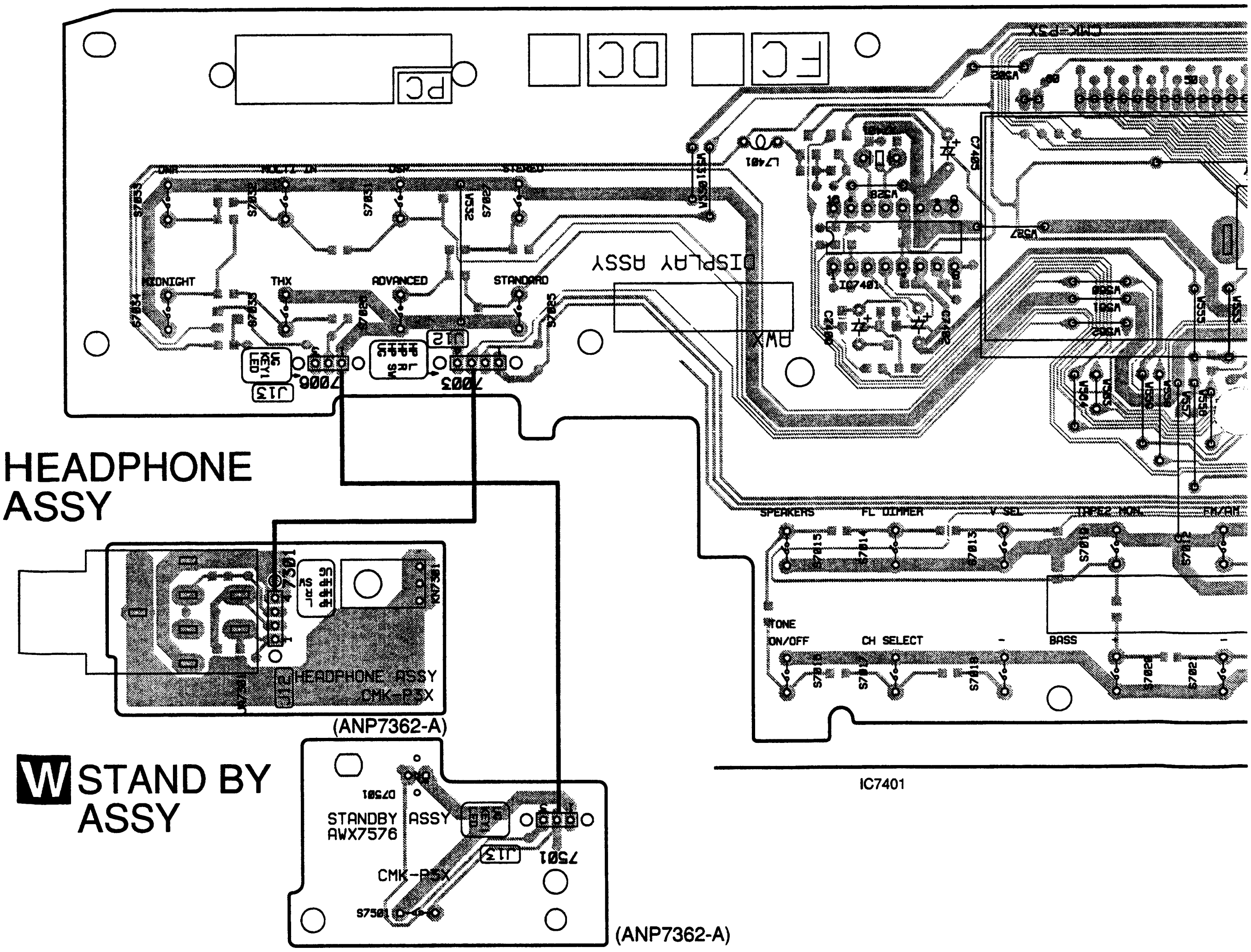

NEUTRAL
LIVE
AC IN
PRIMARY ASSY
CMK-P3X
J6003
J6002
J6001
BRW
ORG
BLU
GRY
FU3
FU2
FU1
SIDE
TUBE
N
L
CN6002
RISK OF FIRE - REPLACE FUSE AS MARKED.
P Y6002
P Y6001
SECONDARY
PRIMARY
J6004
BRWN
T6001
WHT
J6005
J6006
BLK
IC6001
Q6001
J32
(ANP7360-A)
L
CN3005
CN6003
CN6004
L CN3010

4.14 DISPLAY, VOLUME-CONT, HEADPHONE, FRONT AV and STANDBY ASSYS

T VOLUME-CONT ASSY


CMK-P3X
VOLUME CONT. ASSY
AWX7577
S7101
S7102
S7103
S7104
MASSOURCE
MR CONT.
J11
CN7101
(ANP7362-A)

S DISPLAY ASSY

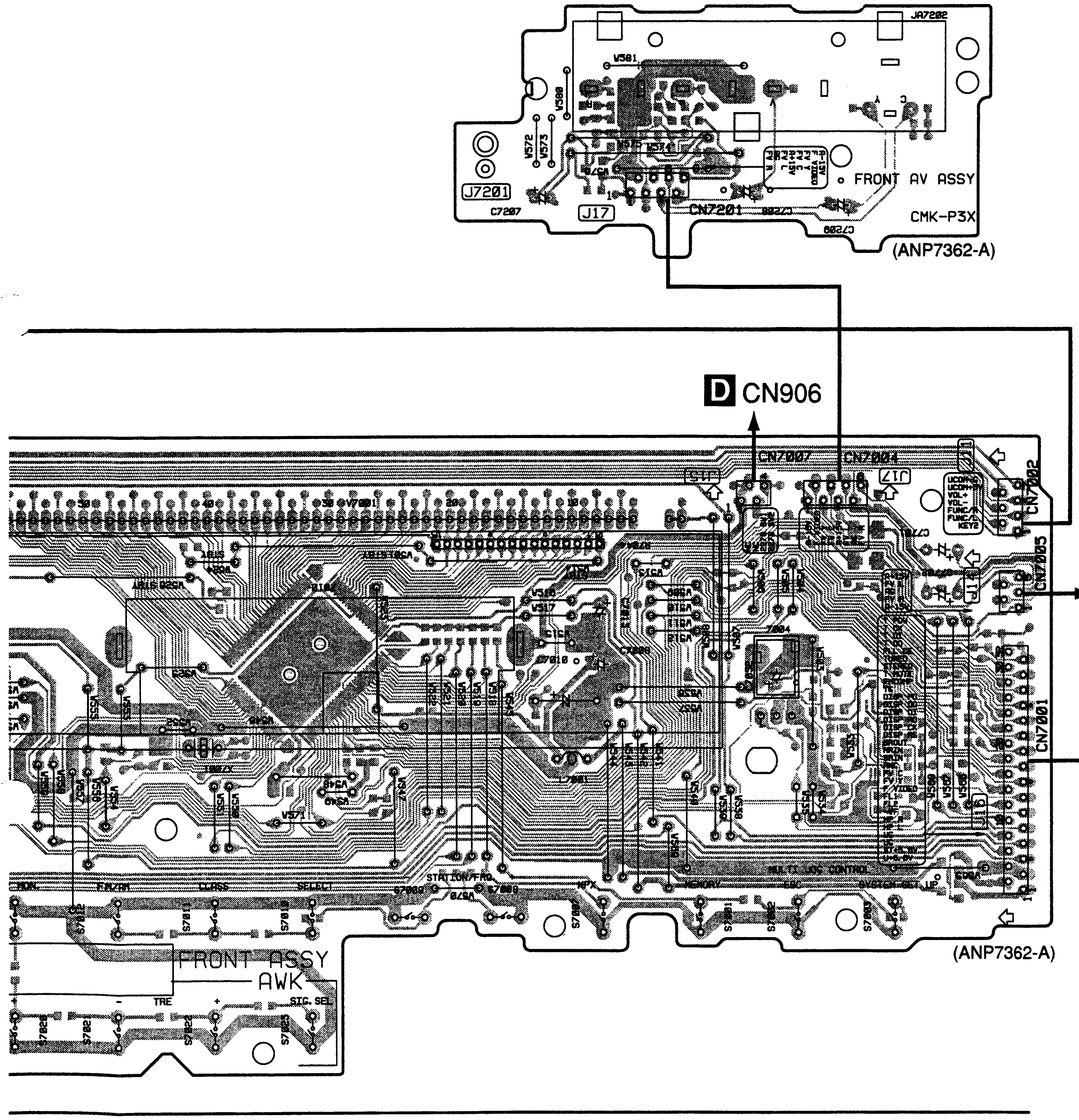

PC
DC
FC
CMK-P3X
DISPLAY ASSY
AWX
L7401
IC7401
C7405
DNR
MULTI IN
DSP
STEREO
MIDNIGHT
THX
ADVANCED
STANDARD
S7033
S7032
S7031
S7034
S7035
S7036
S7025
V532
J13
J12
7006
7005
SPEAKERS
FL DIMMER
V SEL
TAPE2 MON.
FM/AM
S7015
S7014
S7013
S7012
TONE ON/OFF
CH SELECT
BASS
S7016
S7017
S7018
S7020
HEADPHONE ASSY
CMK-P3X
CN7301
KN7301
J12
(ANP7362-A)
STANDBY ASSY
AWX7576
CMK-P3X
D7501
7501
J13
S7501
(ANP7362-A)

U HEADPHONE ASSY

W STAND BY ASSY

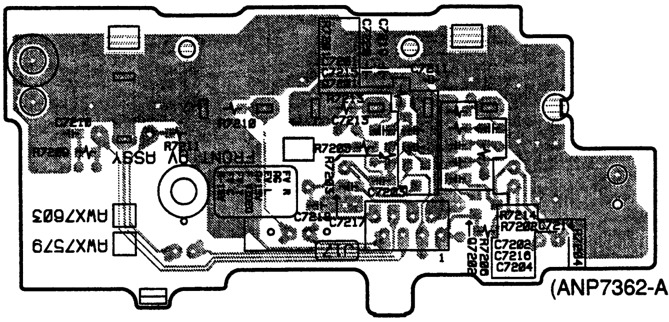
IC7401

V FRONT AV ASSY


JA7202
V581
V580
V572
V573
V575
V574
V576
J7201
C7207
J17
CN7201
C7208
C7209
FRONT AV ASSY
CMK-P3X
(ANP7362-A)
D CN906
CN7007
CN7004
J17
CN7002
CN7005
D CN102
CN7001
D CN903
J16
V7001
7004
C7009
S7010
L7001
MULTI JOG CONTROL
MDMC
FM/AM
CLASS
SELECT
STATION/FRQ.
MPX
MEMORY
ESC
SYSTEM SET UP
S7012
S7011
S7010
S7008
S7009
S7007
S7001
S7002
S7003
(ANP7362-A)
FRONT ASSY
AWK
TRE
STG. SEL
S7020
S7021
S7022
S7025

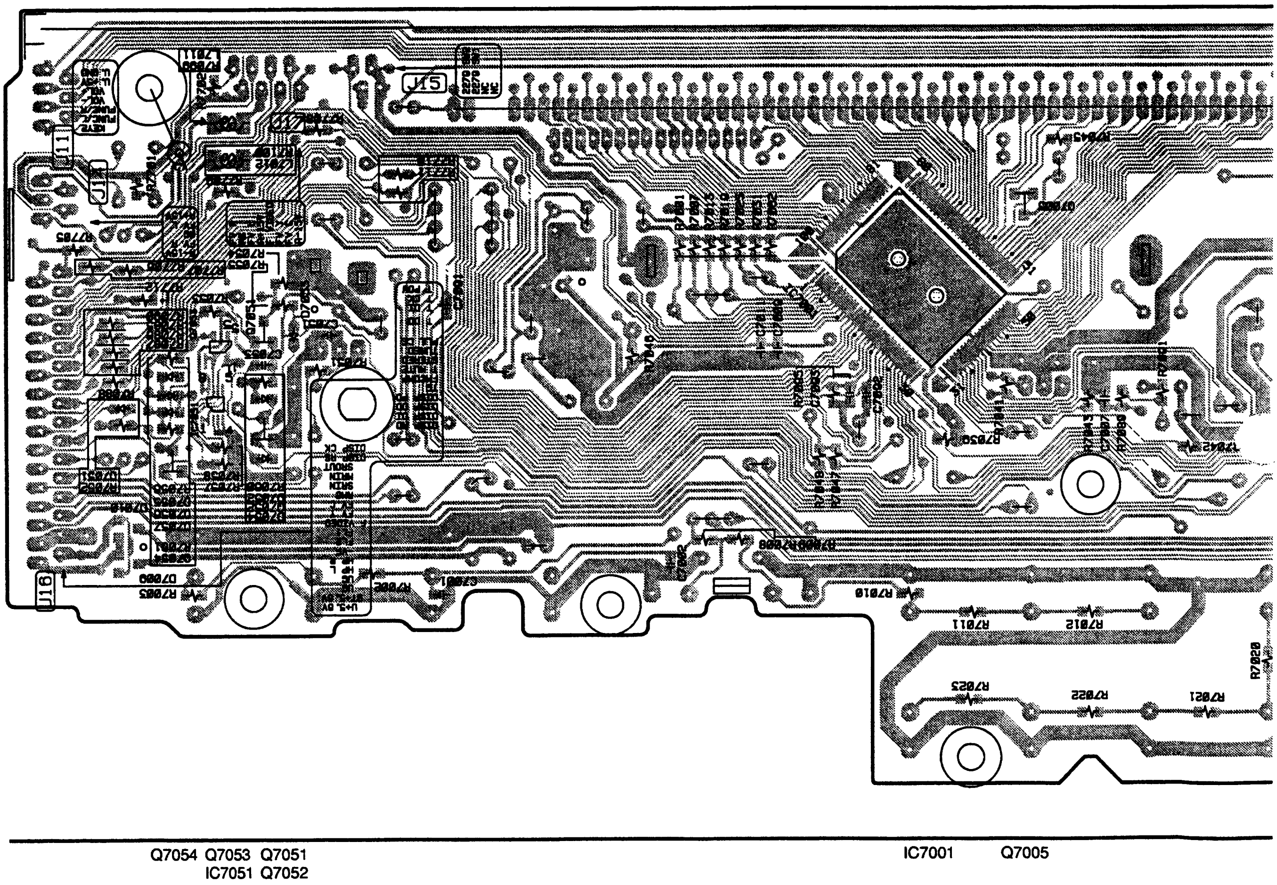
SIDE A

V FRONT AV ASSY


FRONT AV ASSY
AWX7603
AWX7579
J17
1

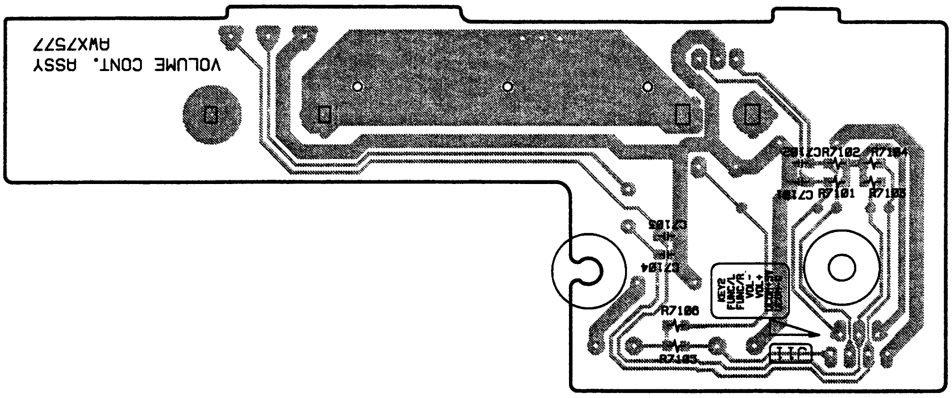
(ANP7362-A)

S DISPLAY ASSY

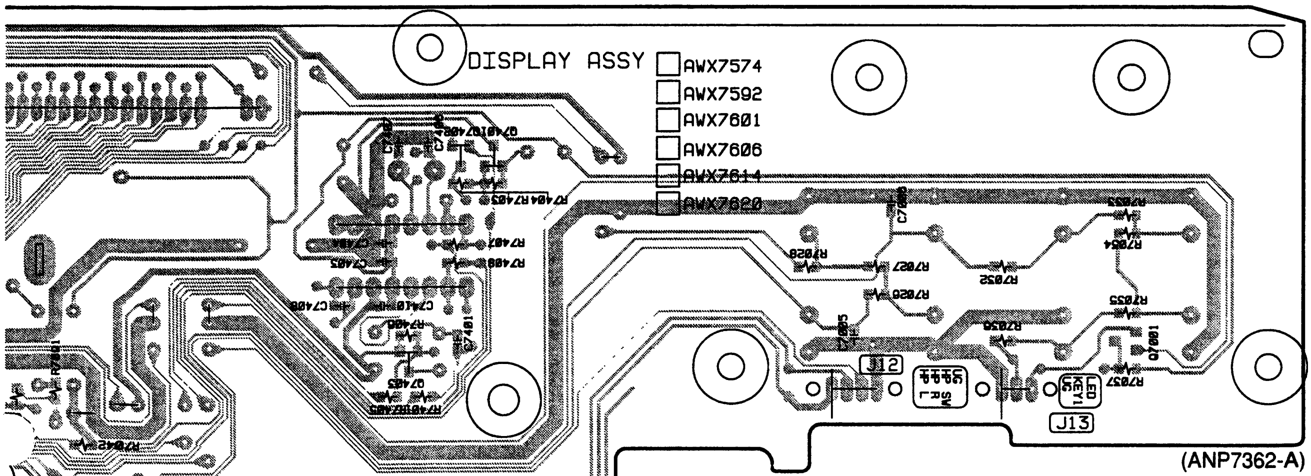
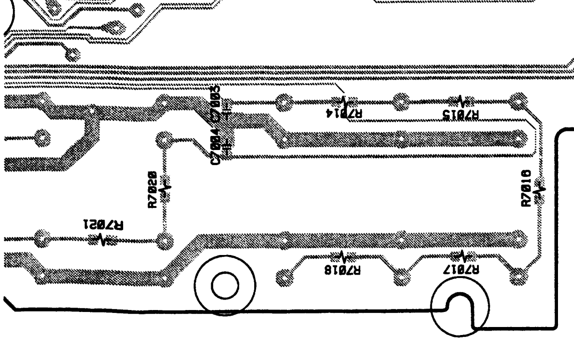

J11
J15
J16
R7011
R7012
R7021
R7022
R7023
R7020
Q7054 Q7053 Q7051
IC7051 Q7052
IC7001
Q7005

SIDE B

T VOLUME-CONT ASSY


VOLUME CONT. ASSY
AWX7577
R7102
R7104
R7101
R7103
C7105
C7104
R7106
R7105
J11

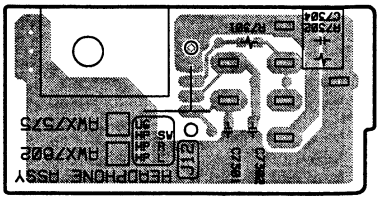
(ANP7362-A)



DISPLAY ASSY
AWX7574
AWX7592
AWX7601
AWX7606
AWX7614
AWX7620
R7028
R7027
R7026
R7032
R7033
R7034
R7035
R7036
R7037
Q7001
C7005
J12
J13
R7014
R7015
R7016
R7017
R7018
R7020
R7021

(ANP7362-A)

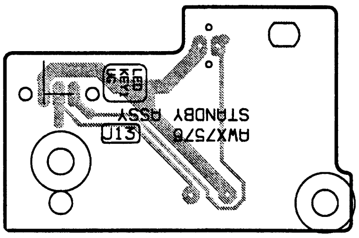
Q7403 Q7401
Q7402

U HEADPHONE ASSY


HEADPHONE ASSY
AWX7575
AWX7602
J12
R7301
R7302
C7304

(ANP7362-A)

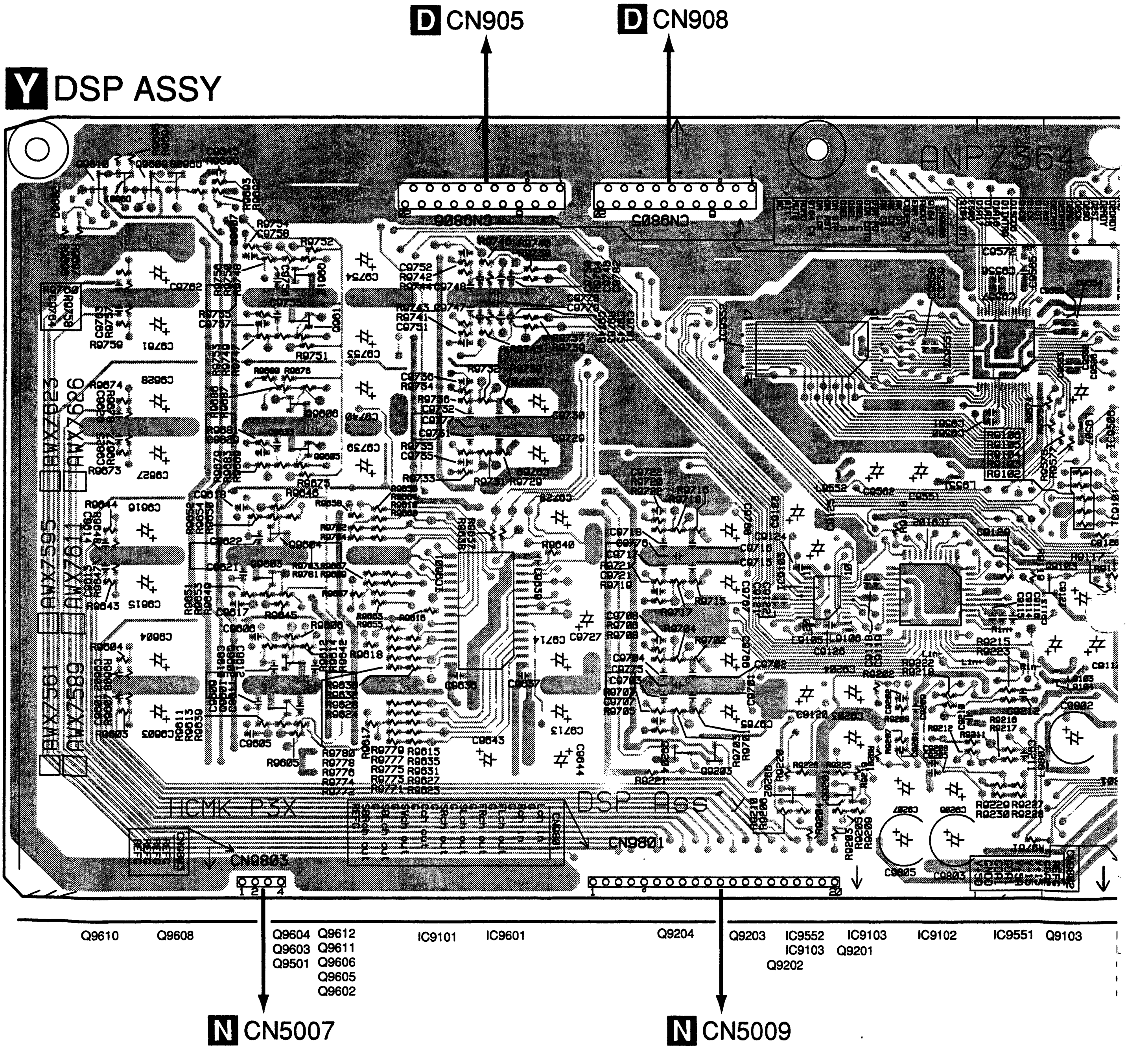
W STAND BY ASSY


STANDBY ASSY
AWX7576
J13

(ANP7362-A)

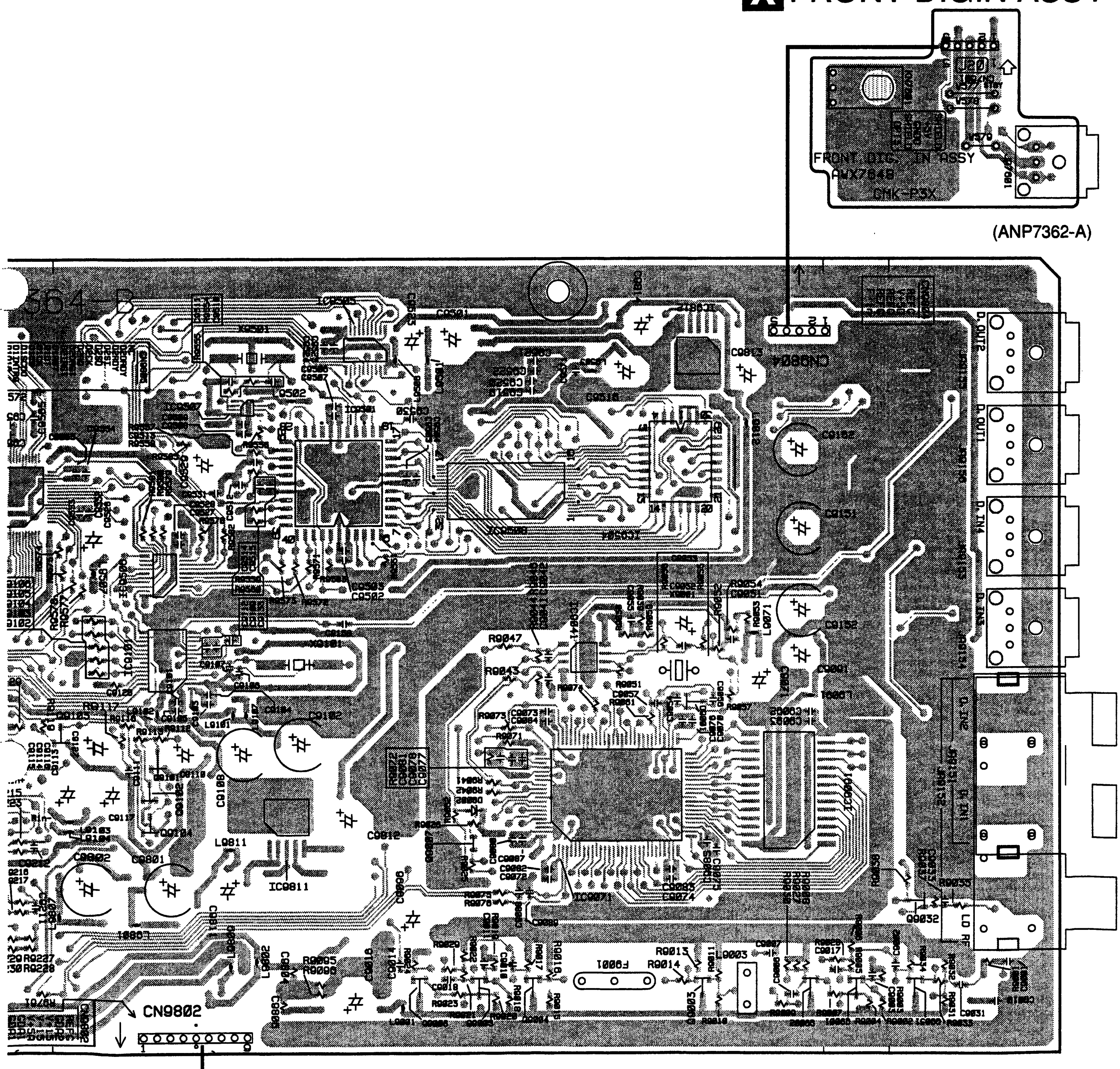
4.15 DSP and FRONT DIGIN ASSYS

Y DSP ASSY


D CN905
D CN908
ANP7364
CN9805
CN9806
HCMK P3X
DSP Assy Y
CN9801
CN9803
Q9610
Q9608
Q9604
Q9603
Q9501
Q9612
Q9611
Q9606
Q9605
Q9602
IC9101
IC9601
Q9204
Q9203
IC9552
IC9103
Q9202
IC9103
Q9201
IC9102
IC9551
Q9103
N CN5007
N CN5009

A

X FRONT DIGIN ASSY


FRONT DIG. IN ASSY
AWX7848
GMK-P3X
(ANP7362-A)
CN9804
CN9802
IC9811
IC9071
L9811
F9001
R9047
R9043
R9013
R9014
R9005
Q9032
D.OUT2
D.OUT1
D.IN4
D.IN3
D.IN2
D.IN1
LD RF

B

C

IC9551 Q9103 IC9506 IC9101 Q9401 Q9102 Q9104 IC9507 IC9811 IC9505 IC9501 Q9006 Q9007 Q9005 IC9508 Q9004 IC9041 IC9071 IC9812 IC9504 Q9003 IC9091 Q9002 Q9001 Q9032 Q9031

(ANP7364-B)

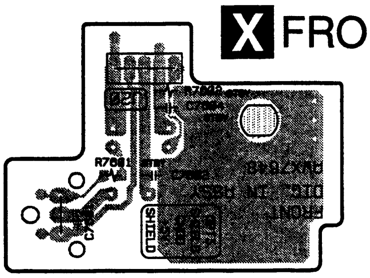
D

N CN5006

SIDE A

A

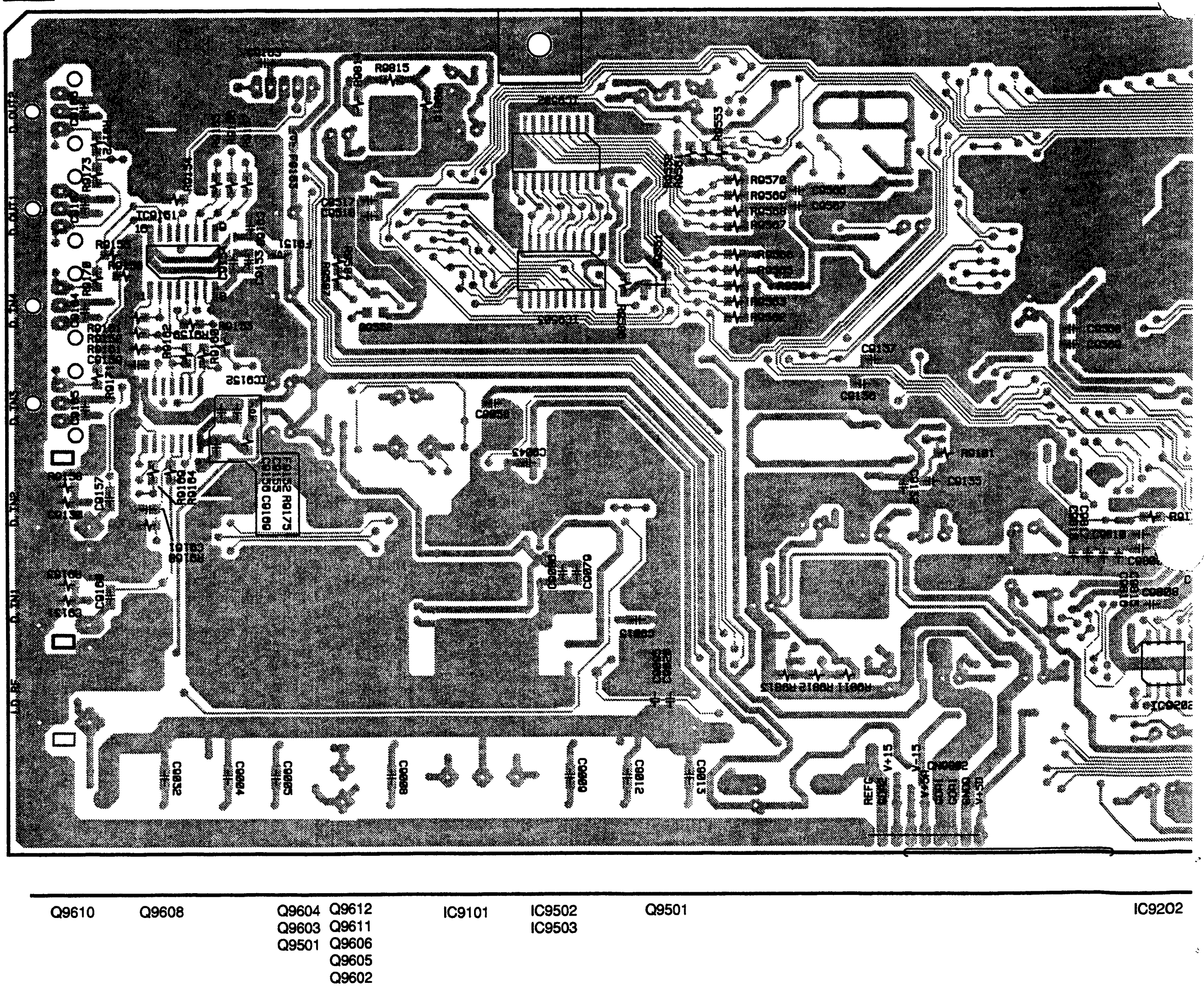
X FRONT DIGIN ASSY


R7002
R7001
FRONT
DIGI. IN ASSY
SHIELD

(ANP7362-A)

B

Y DSP ASSY

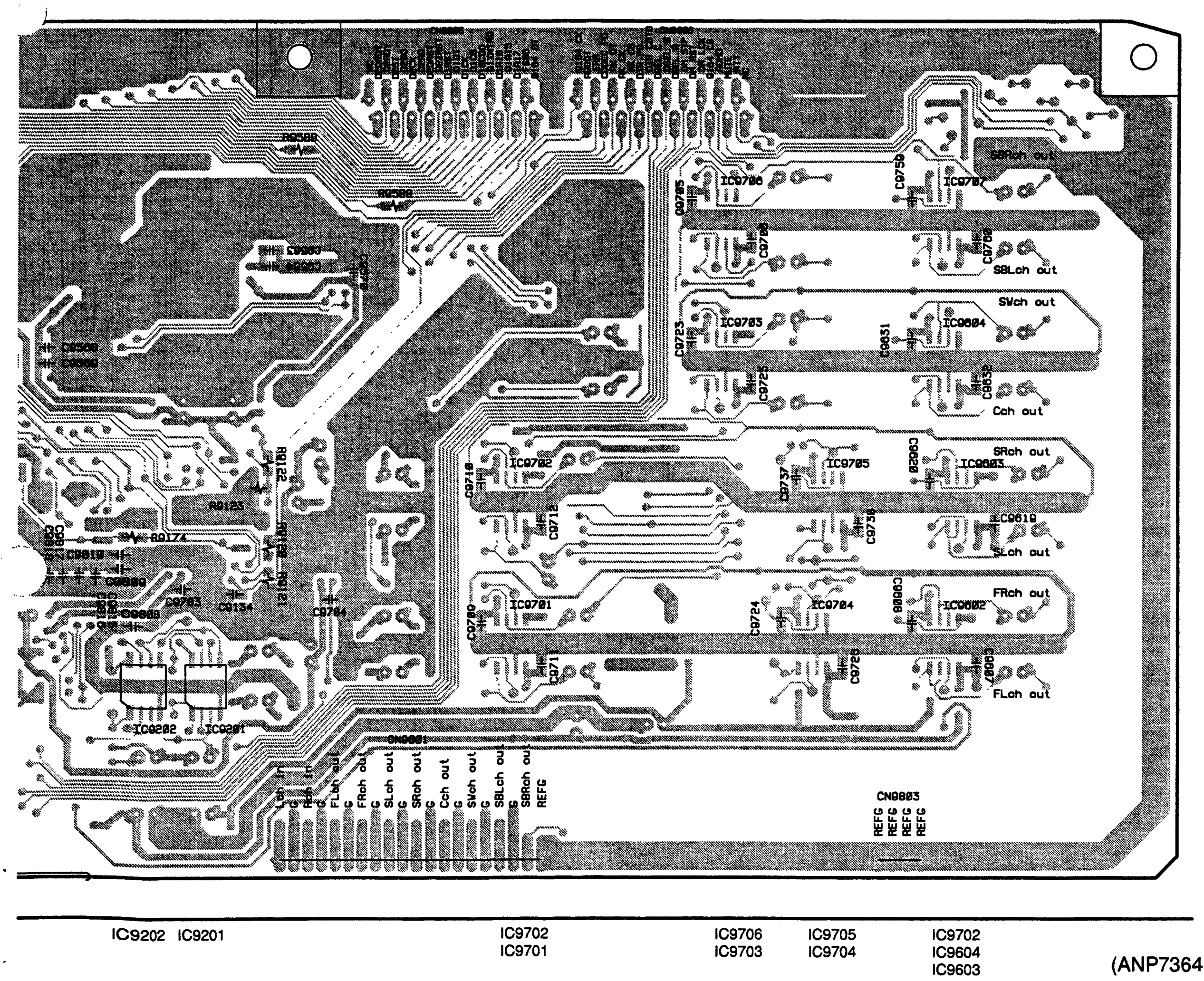

R0815
IC0161
IC0152
R0173
R0176
R0578
R0580
R0582
R0567
C0157
C0136
C0157
C0158
R0181
C0135
C0832
C0804
C0805
C0808
C0809
C0812
C0813
REF
V+15
V-15
V+5D
R0811 R0812 R0813
IC9202
Q9610
Q9608
Q9604
Q9603
Q9501
Q9612
Q9611
Q9606
Q9605
Q9602
IC9101
IC9502
IC9503
Q9501
IC9202

C

D

A

B


SBRch out
IC9706
C9750
IC9707
C9705
C9708
C9706
SBLch out
SWch out
IC9703
C9723
C9631
IC9604
C9725
C9632
Cch out
SRch out
C9710
IC9702
C9737
IC9705
C9620
IC9603
C9712
C9736
C9619
SLch out
FRch out
C9700
IC9701
C9724
IC9704
C9608
IC9602
C9711
C9726
C9603
FLch out
R9122
R9125
R9174
C9134
C9703
C9704
IC9202
IC9201
CN9801
Lch in
Rch in
G
FLch out
G
FRch out
G
SLch out
G
SRch out
G
Cch out
G
SWch out
G
SBLch out
G
SBRch out
REFG
CN9803
REFG
REFG
REFG
REFG

IC9202 IC9201

IC9702
IC9701

IC9706
IC9703

IC9705
IC9704

IC9702
IC9604
IC9603
IC9602

(ANP7364-B)

C

D

SIDE B

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

●*The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ *J*
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ *J*
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ *K*
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ *K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ *F*

■LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.		Remarks
		VSX-35TX/KUXJI/CA	VSX-33TX/KUXJI/CA	
	FM/AM TUNER UNIT	AXQ7231	AXQ7231	
NSP	COMPLEX ASSY	AWK7592	AWK7613	
	├─EX I/O ASSY	AWX7568	Not used	
	├─5.1CH I/O ASSY	Not used	AWX7613	
	├─A-CONNECTION ASSY	AWX7566	AWX7619	
	├─TRANS 2-2 ASSY	AWX7565	AWX7720	
	├─REGULATOR ASSY	AWX7562	AWX7562	
	├─V-CONNECTION ASSY	AWX7567	AWX7717	
	├─PRIMARY ASSY	AWX7563	AWX7563	
NSP	└─TRANS 1 ASSY	AWX7564	AWX7564	
NSP	POWER ASSY	AWK7593	AWK7598	
	├─INPUT ASSY	AWX7573	AWX7585	
	├─FRONT AMP ASSY	AWX7569	AWX7569	
	├─REAR AMP ASSY	AWX7570	AWX7570	
	├─SP/PS ASSY	AWX7571	AWX7721	
	└─TRANS 2-1 ASSY	AWX7572	AWX7572	
NSP	MAIN ASSY	AWK7591	AWK7612	
	├─MAIN CONTROL ASSY	AWX7560	AWX7610	
	└─DSP ASSY	AWX7561	AWX7611	
NSP	FRONT ASSY	AWK7594	AWK7614	
	├─V-AMP ASSY	AWX7578	AWX7578	
	├─S VIDEO ASSY	AWX7580	AWX7616	
	├─COMPOSITE ASSY	AWX7581	AWX7617	
	├─FRONT AV ASSY	AWX7579	AWX7579	
	├─DISPLAY ASSY	AWX7574	AWX7614	
	├─VOLUME-CONT ASSY	AWX7577	AWX7577	
	├─HEADPHONE ASSY	AWX7602	AWX7602	
	├─FRONT DIGIN ASSY	AWX7648	Not used	
	└─STAND BY ASSY	AWX7576	AWX7576	
NSP	VIDEO ASSY	AWK7595	Not used	
	└─COMPONENT ASSY	AWX7582	Not used	

C INPUT ASSY

AWX7573 and AWX7585 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7573	AWX7585	
	Q1001, Q1002	2SC2878	Not used	
	D1051	1SS133	Not used	
	C1051	CGCYX103M16	Not used	
	R1013-R1016, R1051	RD1/4PU102J	Not used	
	R1017, R1018	RD1/4PU473J	Not used	
	CN1002 6P SOCKET	KP200TA6L	Not used	
	JA1004 2P PIN JACK	AKB7046	Not used	
	JA1051 MULTI ROOM JACK	AKN7014	Not used	

D MAIN CONTROL ASSY

AWX7560 and AWX7610 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7560	AWX7610	
	IC101	M5220FP	Not used	
	IC103	TC9164AF	Not used	
	IC104	NJM4558MD	Not used	
	Q905	DTA124EK	Not used	
	C113, C114	CEAT100M50	Not used	
	C115, C116	CCSQCH181J50	Not used	
	C117, C118	CEAT470M25	Not used	
	C121, C122	CQMA822J50	Not used	
	C123, C124	CQMA242J50	Not used	
	C125, C126	CEAT2R2M50	Not used	
	C127, C128	CEJQ101M25	Not used	
	C133, C134, C911	CKSRYB103K50	Not used	
	C135, C136	CEAT1R0M50	Not used	
	C191-C193	CCSRCH101J50	Not used	
	R111, R112	RS1/10S0R0J	Not used	
	R113, R114, R117, R118, R129, R130, R139, R140	RS1/10S104J	Not used	
	R203, R204	RS1/10S104J	Not used	
	R115, R116	RS1/10S331J	Not used	
	R119, R120	RS1/10S511J	Not used	
	R121, R122	RS1/10S394J	Not used	
	R123, R124	RS1/10S303J	Not used	
	R125, R126, R133, R134	RS1/10S471J	Not used	
	R131, R132	RS1/10S474J	Not used	
	R135, R136, R934, R944-R946	RS1/16S102J	Not used	
	R923	Not used	RS1/16S103J	
	R924	RS1/16S103J	Not used	
	R933	RS1/16S473J	Not used	
	R990, R991	RS1/10S102J	Not used	
	CN103 9P PLUG	AKP7057	Not used	
	CN906 4P FFC CONNECTOR	52045-0445	Not used	
	JA151 2P PIN JACK	VKB1060	Not used	

E A-CONNECTION ASSY

AWX7566 and AWX7619 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7566	AWX7619	
	IC1501	TC9215AF	Not used	
	IC1502	TC9459F	Not used	
	IC1503	NJM4558MD	Not used	
	IC1551	M62429FP	Not used	
	D1551	UDZS5.1B	Not used	
	C1501-C1504, C1517, C1518	CKSQYB103K50	Not used	
	C1507, C1508	CEAT100M50	Not used	
	C1511, C1512	CCSQCH560J50	Not used	
	C1515, C1516, C1551-C1553	CEAT100M50	Not used	
	C1541-C1543	CCSQCH101J50	Not used	
	C1554, C1555	CCSQCH101J50	Not used	
	C1556, C1557	CEAT1R0M50	Not used	
	R1503, R1504, R1511, R1512	RS1/10S104J	Not used	
	R1505, R1506, R1554, R1555	RS1/10S103J	Not used	
	R1507, R1508	RS1/10S472J	Not used	
	R1509, R1510	RS1/10S152J	Not used	
	R1541-R1545, R1552, R1553	RS1/10S102J	Not used	
	R1551	RS3LMF391J	Not used	
	R1569-R1574	RS1/10S0R0J	Not used	
	CN1552 9P SOCKET	AKP7068	Not used	
	CN1554 6P PLUG	KM200TA6	Not used	

F COMPOSITE ASSY

AWX7581 and AWX7617 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7581	AWX7617	
	IC731	NJM2279M	Not used	
	IC751	TC4W53FU	Not used	
	Q701	2SA933S	Not used	
	D731	DAN202K	Not used	
	C707	CCSQCH181J50	Not used	
	C712, C734, C735	CEAT101M10	Not used	
	C713	CEAT101M16	Not used	
	C714, C732, C733, C736, C785, C786	CKSQYB473K50	Not used	
	C715	CCSQCH150J50	Not used	
	C737	CCSQCH470J50	Not used	
	R707	RS1/10S750J	Not used	
	R712	RS1/10S183J	Not used	
	R713	RS1/10S103J	Not used	
	R714	RS1/10S101J	Not used	
	R715	RD1/2VM201J	Not used	
	R733-R735, R766	RS1/10S102J	Not used	
	R767	RS1/10S104J	Not used	
	JA703	Not used	VKB1048	
	703 2P PIN JACK	AKB7017	Not used	

G S VIDEO ASSY

AWX7580 and AWX7616 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7580	AWX7616	
	IC852	BU4053BCF	Not used	
	C854	CCSQCH151J50	Not used	
	C855, C856	CKSQYB103K50	Not used	
	R855	RS1/10S103J	Not used	
	R868-R870	RS1/10S102J	Not used	
	R883, R885	Not used	RS1/10S0R0J	
	R884	RS1/10S0R0J	Not used	

H V-CONNECTION ASSY

AWX7567 and AWX7717 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7567	AWX7717	
	Q601	KRC103M	Not used	
	C601	CKSQYB103K50	Not used	
	R601	RS1/10S103J	Not used	
	CN604 10P PLUG	KM200TA10	Not used	

L SP/PS ASSY

AWX7571 and AWX7721 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7571	AWX7721	
	L3111, L3112 BEAD FILTER	ATX1012	Not used	
	C3001, C3002	ACH7147	ACH7145	

O TRANS 2-2 ASSY

AWX7565 and AWX7720 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7565	AWX7720	
	C5501, C5502	CQMA104J50	Not used	
	R5501	RD1/4MUF100J	Not used	

S DISPLAY ASSY

AWX7574 and AWX7614 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7574	AWX7614	
	IC7051	TC7W53FU	Not used	
	Q7053	FM1A	Not used	
	Q7054	DTC124EK	Not used	
	D7054-D7057	1SS355	Not used	
	C7053	CKSQYB153K50	Not used	
	R7056	RS1/10S223J	Not used	
	R7057	RS1/10S392J	Not used	
	R7058, R7061	RS1/10S103J	Not used	
	CN7007 4P FFC CONNECTOR	52045-0445	Not used	

Y DSP ASSY

AWX7561 and AWX7611 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7561	AWX7611	
	IC9103	CS4391	Not used	
	IC9602-IC9604, IC9701-IC9705	UPC4570G2	NJM4558MD	
	IC9706, IC9707	UPC4570G2	Not used	
	Q9611, Q9612	2SC3326	Not used	
	L9105, L9106 CHIP SOLID INDUCTOR	QTL1013	Not used	
	C9120	CEJA470M16	Not used	
	C9121, C9124	CKSRYB103K50	Not used	
	C9122	CCSRCH471J50	Not used	
	C9123, C9125	CEJA1R0M50	Not used	
	C9126	CKSRYB104K16	Not used	
	C9167	CKSQYF104Z50	Not used	
	C9705, C9706, C9759, C9760	CKSQYF104Z25	Not used	
	C9745, C9746, C9781, C9782	CKSRYB102K50	Not used	
	C9749-C9752	CCSRCH221J50	Not used	
	C9753, C9754	CEJA330M10	Not used	
	C9755, C9756	CKSRYB122K50	Not used	
	C9757, C9758	CCSRCH271J50	Not used	
	C9761, C9762	CEJA4R7M50	Not used	
	C9763, C9764	CKSRYB222K50	Not used	
	R9104	RS1/16S101J	RS1/16S331J	
	R9120, R9122	RS1/10S681J	Not used	
	R9121, R9749, R9750	RS1/10S562J	Not used	
	R9123	RS1/10S182J	Not used	
	R9154	RS1/10S104J	RS1/10S0R0J	
	R9173	RS1/10S0R0J	Not used	
	R9577	RS1/16S331J	Not used	
	R9737-R9742, R9753, R9754, R9763, R9764	RS1/10S153J	Not used	
	R9743-R9746, R9755, R9756	RS1/16S332J	Not used	
	R9747, R9748	RS1/16S122J	Not used	
	R9751, R9752	RS1/16S822J	Not used	
	R9757, R9758	RS1/16S474J	Not used	
	R9759, R9760	RS1/16S101J	Not used	
	CN9804 KR CONNECTOR	S5B-PH-K-S	Not used	
	JA9156 OPTICAL LINK OUT	GP1FA551TZ	Not used	

■ PCB PARTS LIST FOR VSX-35TX/KUXJI/CA UNLESS OTHERWISE NOTED

A FM/AM TUNER UNIT

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201		BA1451F
	IC202		LC72131MD
	Q201,Q204,Q205		2SC2412K
	Q202		DTA124ES
	Q203		DTC124EK
	D201		1SS133
	D202		MTZJ5.1C

COILS AND FILTERS

Mark	No.	Description	Part No.
	L201	FM COIL	ATE7003
	F202	FM CERAMIC FILTER	ATF-107
	F201	FM CERAMIC FILTER	ATF-119
	F203	AM CERAMIC FILTER	ATF7026

CAPACITORS

Mark	No.	Description	Part No.
	C206		CCSRCH100D50
	C212,C213,C226,C233-C235		CCSRCH101J50
	C240		CCSRCH101J50
	C231,C232		CCSRCH150J50
	C223		CEAT100M50
	C229		CEAT101M10
	C224		CEAT1R0M50
	C227		CEAT220M25
	C241		CEAT2R2M50
	C243		CEAT330M16
	C228		CEAT3R3M50
	C237		CEAT470M10
	C211		CEJA1R0M50
	C210		CEJA470M16
	C204,C238,C602		CKSRYB102K50

Mark	No.	Description	Part No.
	C101,C102,C208,C220,C239		CKSRYB103K50
	C242,C601		CKSRYB103K50
	C216,C217,C225		CKSRYB153K50
	C201,C205,C209,C214,C230		CKSRYB223K50
	C236,C603		CKSRYB223K50
	C221		CKSRYB224K10
	C202,C222		CKSRYB473K16
	C215		CKSRYB681K50

RESISTORS

	R211		RD1/4PU221J
	R221		RD1/4PU222J
	R233		RD1/4PU391J
	R243		RS1/10S0R0J
	R103		RS1/10S331J
	R104		RS1/10S391J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN201	13P FFC CONNECTOR	52044-1345
	BN201	4P ANTENNA TERMINAL	AKA7003
		SHIELD CASE T	ANK7072
		SHIELD CASE B	ANK7073
	X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093

B EX I/O ASSY (For VSX-35TX)

SEMICONDUCTORS

	IC1101-IC1104		UPC4570G2
	Q1151-Q1158		HN1C03F

CAPACITORS

	C1114,C1125-C1132		CEAT100M50
	C1109-C1113,C1115,C1116		CEAT4R7M50
	C1133-C1142,C1159,C1160		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN1112,CN1162	2P PIN JACK	AKB7008
	JA1113,JA1163	2P PIN JACK	AKB7046
	JA1111,JA1161	4P PIN JACK	AKB7048
	CN1102	5P SOCKET	AKP7066
	CN1101,CN1151	9P SOCKET	AKP7068

B 5.1CH I/O ASSY (For VSX-33TX)

SEMICONDUCTORS

	IC1101-IC1103		NJM4558MD
	Q1151-Q1156		HN1C03F

CAPACITORS

	C1114,C1125-C1130		CEAT100M50
	C1109-C1113		CEAT4R7M50
	C1133-C1138,C1141,C1142,C1159		CKSQYB103K50
	C1160		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

Mark	No.	Description	Part No.

OTHERS

	CN1112,CN1162	2P PIN JACK	AKB7008
	JA1111,JA1161	4P PIN JACK	AKB7048
	CN1102	5P SOCKET	AKP7066
	CN1101,CN1151	9P SOCKET	AKP7068

C INPUT ASSY

SEMICONDUCTORS

	Q1001,Q1002		2SC2878
	D1051		1SS133

CAPACITORS

	C1019,C1021,C1051		CGCYX103M16

RESISTORS

	All Resistors		RD1/4PU□□□J

OTHERS

	JA1004	2P PIN JACK	AKB7046
	JA1001-JA1003	4P PIN JACK	AKB7048
	JA1051	MULTI ROOM JACK	AKN7014
	CN1001	14P SOCKET	KP200TA14L
	CN1002	6P SOCKET	KP200TA6L

D MAIN CONTROL ASSY

SEMICONDUCTORS

	IC101		M5220FP
	IC104		NJM4558MD
	IC901		PD5587A
	IC107,IC109		TC9163AF
	IC103		TC9164AF
	IC102		TC9274F-001
	IC108		TC9482F
	IC106,IC110-IC112		UPC4570G2
	Q291		2SC1740S
	Q251,Q252		2SC2412K
	Q902,Q905		DTA124EK
	Q901		DTC143EK
	D254,D255,D901-D910		1SS355
	D301,D302		RB501V-40
	D292		UDZ11B
	D256		UDZS5.1B

COILS

	L901		LCTA2R2J3225
	L991-L993	NOISE FILTER	RTF1167

CAPACITORS

	C902 (0.22F/5.5V)		ACH7132
	C947-C949,C993		CCSQCH101J50
	C115,C116		CCSQCH181J50
	C159,C160		CCSQCH560J50
	C191-C193,C941-C946,C952		CCSRCH101J50
	C963,C964		CCSRCH101J50
	C171,C172,C183		CCSRCH560J50
	C113,C114,C131,C132		CEAT100M50
	C143,C144,C155,C156		CEAT100M50
	C163,C164,C167,C168		CEAT100M50

Mark	No.	Description	Part No.
	C175,C176,C179,C180		CEAT100M50
	C187,C188,C259-C261		CEAT100M50
	C135,C136		CEAT1R0M50
	C147,C148		CEAT220M50
	C903		CEAT221M10
	C125,C126,C905		CEAT2R2M50
	C921		CEAT331M10
	C117,C118		CEAT470M25
	C965		CEAT471M10
	C291		CEJA101M16
	C127,C128		CEJQ101M25
	C992		CKSQYB102K50
	C129,C130,C141,C142		CKSQYB103K50
	C161,C162,C165,C166		CKSQYB103K50
	C173,C174,C177,C178		CKSQYB103K50
	C189,C190,C901,C904,C920		CKSQYB103K50
	C299		CKSQYB104K25
	C991		CKSQYB221K50
	C298		CKSQYB223K50
	C292		CKSQYF225Z16
	C293		CKSRYB102K50
	C133,C134,C149,C150		CKSRYB103K50
	C195,C196,C257,C258,C294		CKSRYB103K50
	C911,C966,C967		CKSRYB103K50
	C184		CKSRYB333K16
	C910,C912		CKSRYB473K16
	C297,C906		CKSRYF105Z10
	C123,C124		CQMA242J50
	C121,C122		CQMA822J50

RESISTORS

Mark	No.	Description	Part No.
	R292		RS1/16S0R0J
	R135,R136,R907,R918,R934		RS1/16S102J
	R941-R949,R955-R957		RS1/16S102J
	R165,R166,R177,R259-R262		RS1/16S103J
	R912,R922,R924		RS1/16S103J
	R199-R202,R257,R258,R910		RS1/16S104J
	R913,R914,R932,R935		RS1/16S104J
	R992,R993		RS1/16S104J
	R159,R160,R171,R172		RS1/16S152J
	R183,R184		RS1/16S152J
	R178		RS1/16S183J
	R984		RS1/16S392J
	R133,R134		RS1/16S471J
	R167,R168,R179,R180		RS1/16S472J
	R293,R905,R906,R933		RS1/16S473J
	R131,R132		RS1/16S474J
	R903		RS1/16S512J
	R911		RS1/16S683J
	R157,R158,R169,R170		RS1/16S751J
	R182		RS1/16S821J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X901	CERAMIC RESONATOR (15.7MHz)	ASS7032
	CN906	4P FFC CONNECTOR	52045-0445
	CN102	5P FFC CONNECTOR	52045-0545
	CN907	10P FFC CONNECTOR	52045-1045
	CN291	13P FFC CONNECTOR	52045-1345
	CN904,CN905,CN908	20P FFC CONNECTOR	52045-2045
	CN105	22P FFC CONNECTOR	52045-2245
	CN903	32P FFC CONNECTOR	52045-3245
	J901	4P SHIELD ASSY	ADX7347
	152	6P PIN JACK	AKB7012
	CN153	4P PIN JACK	AKB7015
	CN103	9P PLUG	AKP7057
	CN107	11P PLUG	AKP7058
	CN101,CN106	15P PLUG	AKP7060
	CN901	15P SOCKET	KP200TA15L
	CN104	20P SOCKET	KP200TA20L
	CN108	4P SOCKET	KP200TA4L
	CN110	6P SOCKET	KP200TA6L
	CN902	7P SOCKET	KP200TA7L
	JA991,JA992	REMOTE CONTROL JACK	RKN1004
	101	PCB BINDER	VEF1040
	JA151	2P PIN JACK	VKB1060

E A-CONNECTION ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1551		M62429FP
	IC1503		NJM4558MD
	IC1501		TC9215AF
	IC1502		TC9459F
	D1551		UDZS5.1B

CAPACITORS

Mark	No.	Description	Part No.
	C1541-C1543,C1554,C1555		CCSQCH101J50
	C1511,C1512		CCSQCH560J50
	C1507,C1508,C1515,C1516		CEAT100M50
	C1551-C1553		CEAT100M50
	C1556,C1557		CEAT1R0M50
	C1501-C1504,C1517,C1518		CKSQYB103K50

RESISTORS

Mark	No.	Description	Part No.
	R1551		RS3LMF391J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN1505	5P PLUG	AKP7055
	CN1501,CN1503	9P PLUG	AKP7057
	CN1552	9P SOCKET	AKP7068
	CN1502	11P SOCKET	AKP7069
	CN1504,CN1551	15P SOCKET	AKP7071
	CN1553	14P PLUG	KM200TA14
	CN1554	6P PLUG	KM200TA6
	1501	PCB BINDER	VEF1040

F COMPOSITE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC731		NJM2279M
	IC701		NJM2296M
	IC751		TC4W53FU
	Q701		2SA933S
	D701,D731		DAN202K

CAPACITORS

Mark	No.	Description	Part No.
	C715		CCSQCH150J50
	C705-C707,C731		CCSQCH181J50
	C737		CCSQCH470J50
	C701-C704,C710-C712		CEAT101M10
	C734,C735,C781,C782		CEAT101M10
	C713		CEAT101M16
	C708,C709,C714,C732,C733		CKSQYB473K50
	C736,C785,C786,C793		CKSQYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R715		RD1/2VM201J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
	703	2P PIN JACK	AKB7017
	JA702,JA704	3P PIN JACK	AKB7056
	CN701	12P SOCKET	KP200TA12L

G S VIDEO ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC831		BU4051BCF
	IC852		BU4053BCF
	IC801,IC802		NJM2296M
	Q852,Q853		2SA933S
	Q833,Q834		IMH11
	Q831		IMZ1A
	D801,D802		1SS355

CAPACITORS

Mark	No.	Description	Part No.
	C857		CCSQCH100D50
	C858		CCSQCH150J50
	C854		CCSQCH151J50
	C815-C818,C861,C862		CCSQCH181J50
	C809		CCSQCH330J50
	C801,C803,C805,C807		CEAT101M10
	C819-C822,C863,C881,C882		CEAT101M10
	C866,C868		CEAT101M16
	C831-C836,C855,C856		CKSQYB103K50
	C893,C894		CKSQYB103K50
	C810-C814,C859,C864,C865		CKSQYB104K25
	C802,C804,C806,C808		CKSQYB473K50
	C823-C826,C867,C869		CKSQYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R864		RD1/2VM201J
	R859		RD1/4VM471J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
	CN802,CN803	4P MINI DIN SOCKET	AKP7020
	CN801	4P MINI DIN SOCKET	AKP7043
	CN804	11P SOCKET	KP200TA11L

H V-CONNECTION ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
	Q601		KRC103M

CAPACITOR

Mark	No.	Description	Part No.
	C601		CKSQYB103K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
	CN601	20P FFC CONNECTOR	52044-2045
	CN604	10P PLUG	KM200TA10
	CN603	11P PLUG	KM200TA11
	CN602	12P PLUG	KM200TA12

I V-AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2201		BU4052BCF
	Q2003,Q2023,Q2043,Q2103,Q2123		2SA933S
	Q2004,Q2007,Q2024,Q2027,Q2044		2SA970
	Q2047,Q2104,Q2107,Q2124,Q2127		2SA970
	Q2252,Q2253		2SC1740S
	Q2005,Q2006,Q2025,Q2026		2SC2240
	Q2045,Q2046,Q2105,Q2106		2SC2240
	Q2125,Q2126,Q2251		2SC2240
	Q2008,Q2028,Q2048,Q2108,Q2128		2SC2878
	Q2001,Q2021,Q2041,Q2101,Q2121		FMS3
	Q2002,Q2022,Q2042,Q2102,Q2122		FMW4
	D2001,D2002,D2004,D2005		1SS355
	D2021,D2022,D2024,D2025		1SS355
	D2041,D2042,D2044,D2045		1SS355
	D2101,D2102,D2104,D2105		1SS355
	D2121,D2122,D2124,D2125		1SS355
	D2201-D2208		1SS355
	D2003,D2023,D2043,D2103,D2123		UDZS6.8B
	D2006,D2026,D2046,D2106,D2126		UDZS8.2B

CAPACITORS

Mark	No.	Description	Part No.
	C2011,C2012,C2031,C2032		CCCSL181K2H
	C2051,C2052,C2111,C2112		CCCSL181K2H
	C2131,C2132		CCCSL181K2H
	C2009,C2029,C2049,C2109,C2129		CCCSL5R0C2H
	C2004,C2024,C2044,C2104,C2124		CCSQCH101J50
	C2002,C2022,C2042,C2102,C2122		CCSQCH221J50
	C2006,C2007,C2026,C2027		CCSQCH560J50
	C2046,C2047,C2106,C2107		CCSQCH560J50
	C2126,C2127		CCSQCH560J50
	C2001,C2021,C2041,C2101,C2121		CEAT100M50
	C2005,C2008,C2025,C2028,C2045		CEAT101M16
	C2048,C2105,C2108,C2125,C2128		CEAT101M16
	C2161,C2162		CEAT221M50
	C2252		CEAT331M10
	C2010,C2030,C2050,C2110,C2130		CEAT470M16
	C2013,C2033,C2053,C2113,C2133		CEAT470M50
	C2151-C2155		CKSQYB222K50
	C2003,C2023,C2043,C2103,C2123		CKSQYB332K50
	C2251		CKSQYF223Z50
	C2201,C2202		CKSQYF225Z16

RESISTORS

Mark	No.	Description	Part No.
	R2018,R2038,R2058,R2118,R2138		RD1/4MUF473J
⚠	R2012,R2032,R2132		RS1/10S101J
⚠	R2013,R2014,R2033,R2034		RS1/10S121J
⚠	R2053,R2054,R2113,R2114		RS1/10S121J
⚠	R2133,R2134		RS1/10S121J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

	CN2101	13P FFC CONNECTOR	52045-1345
	CN2001	22P FFC CONNECTOR	52045-2245
	CN2002	18P SOCKET	KP200TA18L

J FRONT AMP ASSY

SEMICONDUCTORS

	Q2503,Q2523,Q2543		2SA970
	Q2502,Q2522,Q2542		2SC4137
⚠	Q2501,Q2521,Q2541		IRF540A
⚠	Q2504,Q2524,Q2544		IRF9540A
	D2501-D2505,D2521-D2525		1SS133
	D2541-D2545		1SS133

CAPACITORS

	C2501,C2521,C2541		CEANPR22M50
	C2551,C2552		CEAT330M2A

RESISTORS

⚠	R2512,R2532,R2552 (0.05Ω/5W×2)		ACN7097
⚠	R2506,R2510,R2526,R2530,R2546		RD1/4PUF391J
⚠	R2550		RD1/4PUF391J
⚠	R2501,R2511,R2521,R2531,R2541		RD1/4PUF680J
⚠	R2551		RD1/4PUF680J
	VR2501,VR2521,VR2541 (470Ω)		ACP1067
	Other Resistors		RD1/4PU☐☐☐J

OTHERS

	CN2501	18P PLUG	KM200TA18

K REAR AMP ASSY

SEMICONDUCTORS

	Q2603,Q2623		2SA970
	Q2602,Q2622		2SC4137
⚠	Q2601,Q2621		IRF540A
⚠	Q2604,Q2624		IRF9540A
	D2601-D2605,D2621-D2625		1SS133

CAPACITORS

	C2601,C2621		CEANPR22M50
	C2651,C2652		CEAT220M2A

RESISTORS

⚠	R2612,R2632 (0.05Ω/5W×2)		ACN7097
⚠	R2606,R2610,R2626,R2630		RD1/4PUF391J
⚠	R2601,R2611,R2621,R2631		RD1/4PUF680J
	VR2601,VR2621 (470Ω)		RCP1135
	Other Resistors		RD1/4PU☐☐☐J

OTHERS

Mark	No.	Description	Part No.
	CN2601	13P FFC CONNECTOR	52045-1345
	2602	PCB BINDER	VEF1040

L SP/PS ASSY

SEMICONDUCTORS

⚠	Q3302		2SA1837
⚠	Q3301		2SC4793
	Q3304		KRA101M
	Q3005,Q3156-Q3159		KRA103M
	Q3151-Q3155,Q3303		KRC101M
	Q3305		KRC103M
	D3051,D3053,D3055,D3057,D3060		1SS133
⚠	D3001,D3002		D5SBA20
	D3309,D3310		MTZJ13C
	D3313		MTZJ16B
	D3305-D3308		MTZJ18C
⚠	D3301-D3304,D3311,D3312		S5688G

COILS

	L3101-L3105	AF CHOKE COIL	ATH1053
	L3111,L3112	BEAD FILTER	ATX1012

RELAYS

	RY3101-RY3105		ASR7026

CAPACITORS

	C3001,C3002 (22000μF/56V)		ACH7147
	C3305,C3306		CEAT101M50
	C3307,C3308		CEAT221M50
	C3118		CEAT470M50
	C3303,C3304		CEAT471M63
	C3101-C3105		CFTYA104J50
	C3111-C3117		CQHA102J2A

RESISTORS

	R3151-R3155		RD1/2PM471J
⚠	R3305,R3306		RD1/4PMF332J
	R3001,R3002		RD1/4PMF473J
⚠	R3101-R3105		RD1/4PMF4R7J
⚠	R3106-R3110		RS1LMF4R7J
⚠	R3131,R3132		RS2LMF331J
	Other Resistors		RD1/4PU☐☐☐J

OTHERS

	3001	6P CABLE HOLDER	51048-0600
	3004	8P CABLE HOLDER	51048-0800
	CN3003	14P FFC CONNECTOR	52045-1445
	CN3101	8P SPEAKER TERMINAL	AKE7058
	CN3102	6P SPEAKER TERMINAL	AKE7060
	3013,3014,3303,3304	SCREW	BBZ30P080FZK
	CN3005,CN3010	4P PLUG	KM200TA4

Mark	No.	Description	Part No.

M TRANS 2-1 ASSY

SEMICONDUCTORS

⚠	IC4501,IC4502 (5A)		AEK7019

CAPACITOR

	C4502		CQMA333K2E

RESISTOR

	R4502		RFA1/4PS220J

OTHERS

	4001	6P CABLE HOLDER	51048-0600
	H4501-H4504	FUSE HOLDER	AKR7001

N REGULATOR ASSY

SEMICONDUCTORS

⚠	IC5009,IC5010 (200mA)		AEK7023
⚠	IC5004,IC5008		NJM78M05FA
⚠	IC5003		NJM78M12FA
⚠	IC5001		NJM78M15FA
⚠	IC5005,IC5007		NJM78M56FA
⚠	IC5006		NJM79M05FA
⚠	IC5002		NJM79M15FA
	D5010		1SS355
⚠	D5005,D5009		D3SBA20(B)
⚠	D5012		MTZJ6.2B
⚠	D5001-D5004		S5566G(TPB2)
	D5011		UDZS5.1B

CAPACITORS

	C5015,C5017		CEAT101M10
	C5013,C5025		CEAT101M25
	C5021		CEAT221M10
	C5001,C5003,C5006		CEAT222M25
	C5002,C5004		CEAT222M35
	C5019		CEAT331M10
	C5005		CEAT332M25
	C5024		CEAT470M50
	C5023		CEAT471M10
	C5009,C5011		CEAT471M25
	C5007		CEAT472M16
	C5034		CKSQYB102K50
	C5008,C5010,C5012,C5014,C5016		CKSQYB103K50
	C5018,C5020,C5022,C5031,C5035		CKSQYB103K50
	C5030		CQMA104J50

RESISTORS

	R5005		RD1/2VM1R0J
	Other Resistors		RS1/10S□□□J

OTHERS

	5010	4P CABLE HOLDER	51048-0400
	CN5002	14P FFC CONNECTOR	52045-1445
	CN5001	8P FFC CONNECTOR	52147-0810
	CN5005	15P PLUG	KM200TA15
	CN5004,CN5009	20P PLUG	KM200TA20
	CN5007,CN5010	4P PLUG	KM200TA4
	CN5003	6P PLUG	KM200TA6
	CN5008	7P PLUG	KM200TA7
	CN5006	9P PLUG	KM200TA9
	KN5002	EARTH METAL FITTING	VNF1084

Mark	No.	Description	Part No.

O TRANS 2-2 ASSY

SEMICONDUCTOR

⚠	IC5501 (5A)		AEK7019

CAPACITORS

⚠	C5501,C5502		CQMA104J50

RESISTOR

⚠	R5501		RD1/4MUF100J

OTHERS

	5501	4P CABLE HOLDER	51048-0400

Q PRIMARY ASSY

SEMICONDUCTORS

⚠	IC6001		NJM78M56FA
	Q6001		KRC101M
	D6005-D6007		1SS355
⚠	D6001		S1WB(A)60SD
	D6008		UDZS5.1B

COILS

⚠	L6001	LINE FILTER	ATF7018
	L6003,L6004	BEAD FILTER	ATX1012

TRANSFORMER

⚠	T6001		ATT7043

RELAY

⚠	RY6001		ASR7025

CAPACITORS

⚠	C6002 (0.01µF/AC275V)		ACE7013
⚠	C6003 (10000pF/AC250V)		ACG7033
	C6005		CEAT102M25
	C6006		CEAT221M25
	C6015		CQMA104J50

RESISTORS

⚠	R6001 (2.2MΩ, 1/2W)		RCN1080
	R6003		RD1/2VM101J
	Other Resistors		RS1/10S□□□J

OTHERS

	6004	AC SOCKET	AKP7136
	H6001,H6002	FUSE CLIP	AKR7001
	CN6003,CN6004	4P SOCKET	KP200TA4L
⚠	CN6002	AC CORD SOCKET	RKP1751
	6003	SCREW TERMINAL	VNE1948

R COMPONENT ASSY

SEMICONDUCTORS

	IC551		LC74782M-9011
	IC501		TC74HC4053AF
	IC502,IC503		TK15420M
	Q551		DTC124EK
	D551,D552		1SS355

COILS

Mark	No.	Description	Part No.
	L552,L553		LCTA100J3225
	L551		LCTA330J3225

CAPACITORS

Mark	No.	Description	Part No.
	C551,C559		CCSQCH101J50
	C555		CCSQCH150J50
	C556		CCSQCH180J50
	C557,C558		CCSQCH240J50
	C513-C515		CCSQCH470J50
	C501-C504,C507,C508,C552		CEAT101M10
	C562,C563		CEAT101M10
	C505,C506,C509-C512,C518		CKSQYB103K50
	C553,C554,C560,C561		CKSQYB473K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X551	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	JA501-JA503	3P PIN JACK	AKB7124
	CN501	10P SOCKET	KP200TA10L

S DISPLAY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7001		PD5588A
	IC7051		TC7W53FU
	Q7051		2SA1037K
	Q7001,Q7052,Q7054		DTC124EK
	Q7053		FMA1A
	D7051-D7057		1SS355
	D7009,D7010		DAN202K

COIL

Mark	No.	Description	Part No.
	L7001		LFA2R2J

SWITCHES

Mark	No.	Description	Part No.
	S7001-S7003,S7007-S7023		ASG7013
	S7025-S7027,S7031-S7035		ASG7013

CAPACITORS

Mark	No.	Description	Part No.
	C7010 (0.22µF/5.5V)		ACH7132
	C7007,C7092,C7093		CCSQCH101J50
	C7701,C7702		CEAT100M50
	C7008,C7013,C7052		CEJA101M6R3
	C7001-C7006,C7091		CKSQYB102K50
	C7051		CKSQYB103K50
	C7053		CKSQYB153K50
	C7009		CKSQYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R7044		RA15T104J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X7001	CERAMIC RESONATOR (7.2MHz)	ASS7018
	7006	3P CABLE HOLDER	51048-0300
	7003	4P CABLE HOLDER	51048-0400
	CN7007	4P FFC CONNECTOR	52045-0445
	CN7005	5P FFC CONNECTOR	52045-0545
	CN7002	7P FFC CONNECTOR	52045-0745
	CN7004	8P FFC CONNECTOR	52045-0845
	CN7001	32P FFC CONNECTOR	52045-3245
	V7001	FL TUBE	AAV7076
	7010	FL HOLDER	VNF1085

T VOLUME-CONT ASSY

SWITCHES

Mark	No.	Description	Part No.
	S7103,S7104		ASG7013
	S7101		ASX7004
	S7102		ASX7036

CAPACITORS

Mark	No.	Description	Part No.
	C7101-C7104		CKSQYB103K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN7101	7P FFC CONNECTOR	52045-0745
	KN7101	EARTH METAL FITTING	VNF1084

U HEADPHONE ASSY

CAPACITORS

Mark	No.	Description	Part No.
	C7304		CKSQYB103K50
	C7301,C7302		CKSQYB392K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	7301	4P CABLE HOLDER	51048-0400
	JA7301	HEADPHONE JACK	RKB1014
	KN7301	EARTH METAL FITTING	VNF1084

V FRONT AV ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q7201,Q7202		2SC2412K

CAPACITORS

Mark	No.	Description	Part No.
	C7203,C7204		CCSQCH101J50
	C7201,C7202,C7215,C7216		CCSQCH271J50
	C7208,C7209		CEJA101M10
	C7207		CEJA1R0M50
	C7220		CKSQYB102K50
	C7210,C7217-C7219		CKSQYB103K50
	C7211		CKSQYB104K25
	C7213,C7214		CKSQYB105K10

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN7201	8P FFC CONNECTOR	52044-0845
	JA7202	FRONT PIN JACK 4P	AKX7014

W STAND BY ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
	D7501		SLR-343VR(MNP)

SWITCH

Mark	No.	Description	Part No.
	S7501		ASG7013

OTHERS

Mark	No.	Description	Part No.
	7501	3P CABLE HOLDER	51048-0300

X FRONT DIGIN ASSY

CAPACITOR

Mark	No.	Description	Part No.
	C7601		CKSQYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	JA7601	OPTICAL LINK IN	GP1FA551RZ
	CN7601	KR CONNECTOR	S5B-PH-K-S
	KN7601	EARTH METAL FITTING	VNF1084

Y DSP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9101		AK4112AVF
	IC9102		AK4527VQ
	IC9551		AK7706VT
	IC9103		CS4391
	IC9501		CS493292
	IC9201,IC9202		NJM2100M
	IC9504		PDN030A
	IC9811		PQ20WZ51
	IC9812		PQ7VZ5
	IC9552		TC551001CFT-70L
	IC9151		TC74ACT151F
	IC9152		TC74HCU04AF
	IC9505		TC74LVX244FT
	IC9502,IC9503		TC74VHC574F
	IC9506		TC74VHCT244AFT
	IC9507		TC7WU04FU
	IC9601		TC9164AF
	IC9602-IC9604,IC9701-IC9707		UPC4570G2
	Q9201,Q9202,Q9601-Q9606		2SC3326
	Q9611,Q9612		2SC3326
	Q9102,Q9104,Q9203,Q9607		DTA124EK
	Q9609,Q9610		DTA124EK
	Q9101,Q9103,Q9204,Q9608		DTC124EK
	D9601,D9602		1SS181

COILS AND FILTERS

Mark	No.	Description	Part No.
	L9501,L9551,L9801,L9802,L9807	CHIP FERRITE BEAD	ATL7002
	L9809,L9811,L9812	CHIP FERRITE BEAD	ATL7002
	F9151-F9153	CHIP BEAD	DTF1064
	L9101-L9107,L9502,L9503	CHIP SOLID INDUCTOR	QTL1013
	L9506,L9507,L9552	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C9135		CCSQCH101J50
	C9809		CCSQCH221J50
	C9159,C9161		CCSQCH470J50
	C9154,C9156,C9518,C9564		CCSQCH471J50
	C9510,C9511		CCSRCH100D50
	C9609,C9610,C9721,C9722,C9735		CCSRCH101J50
	C9107		CCSRCH150J50
	C9106		CCSRCH180J50
	C9621,C9622,C9749-C9752		CCSRCH221J50
	C9509,C9629,C9757,C9758		CCSRCH271J50
	C9101,C9104,C9112,C9115,C9119		CCSRCH471J50
	C9122,C9503,C9505,C9507,C9513		CCSRCH471J50
	C9515,C9520,C9522,C9525,C9528		CCSRCH471J50
	C9553,C9555,C9557,C9559,C9561		CCSRCH471J50
	C9617,C9618,C9639		CCSRCH471J50
	C9201,C9202		CCSRCH560J50
	C9707,C9708		CCSRCH820J50
	C9611,C9612,C9736		CCSRCH821J50
	C9113		CEAT221M10
	C9523,C9526,C9643,C9644,C9770		CEJA100M25
	C9501,C9516,C9551,C9740		CEJA101M10
	C9801,C9802,C9812,C9814		CEJA101M10
	C9123,C9125		CEJA1R0M50
	C9127,C9529		CEJA2R2M50
	C9713,C9714,C9727,C9728,C9739		CEJA330M10
	C9753,C9754,C9765-C9769		CEJA330M10
	C9102,C9108,C9117,C9120		CEJA470M16
	C9151,C9152,C9162,C9562		CEJA470M16
	C9803,C9805		CEJA470M25
	C9203,C9204,C9206,C9207		CEJA4R7M50
	C9603,C9604,C9615,C9616		CEJA4R7M50
	C9627,C9628,C9761,C9762,C9811		CEJA4R7M50
	C9813		CEJA4R7M50
	C9110		CEJAR47M50
	C9815		CKSQYB102K50
	C9134,C9153,C9155,C9157,C9160		CKSQYB103K50
	C9517,C9563,C9816		CKSQYB103K50
	C9607,C9608,C9619,C9620		CKSQYF104Z25
	C9631,C9632,C9705,C9706		CKSQYF104Z25
	C9709-C9712,C9723-C9726		CKSQYF104Z25
	C9737,C9738,C9759,C9760,C9810		CKSQYF104Z25
	C9163-C9167		CKSQYF104Z50
	C9745,C9746,C9781,C9782		CKSRYB102K50
	C9103,C9105,C9118,C9121,C9124		CKSRYB103K50
	C9133,C9158,C9502,C9504,C9506		CKSRYB103K50
	C9508,C9512,C9514,C9519,C9521		CKSRYB103K50
	C9524,C9527,C9531,C9552,C9554		CKSRYB103K50
	C9556,C9558,C9560,C9572		CKSRYB103K50
	C9636,C9637		CKSRYB103K50
	C9109,C9114,C9116,C9126,C9626		CKSRYB104K16

Mark	No.	Description	Part No.
	C9605,C9606,C9633,C9755,C9756		CKSRYB122K50
	C9211,C9212		CKSRYB152K50
	C9703,C9704,C9715,C9716,C9729		CKSRYB182K50
	C9601,C9602,C9613,C9614,C9625		CKSRYB222K50
	C9763,C9764		CKSRYB222K50
	C9701,C9702		CKSRYB272K50
	C9732		CKSRYB333K16
	C9645		CKSRYB472K50
	C9111		CKSRYB682K50
	C9717,C9718,C9731		CKSRYB821K50
	C9205,C9208-C9210		CKSRYF104Z25
	C9730		CKSRYF104Z50

RESISTORS

	R9153,R9172,R9173,R9175,R9812		RS1/10S0R0J
	R9815		RS1/10S0R0J
	R9159,R9162,R9169-R9171		RS1/10S101J
	R9165-R9167		RS1/10S102J
	R9561,R9563-R9570,R9584		RS1/10S103J
	R9151,R9152,R9154-R9156		RS1/10S104J
	R9814,R9816		RS1/10S122J
	R9123		RS1/10S182J
	R9101		RS1/10S183J
	R9813		RS1/10S202J
	R9161,R9168		RS1/10S222J
	R9588,R9589		RS1/10S331J
	R9552,R9553,R9562		RS1/10S472J
	R9160,R9164		RS1/10S473J
	R9811		RS1/10S511J
	R9121		RS1/10S562J
	R9120,R9122		RS1/10S681J
	R9158,R9163		RS1/10S750J
	Other Resistors		RS1/16S□□□J

OTHERS

	X9101	CRYSTAL RESONATOR (24MHz)	ASS7025
	X9501	CHIP CRYSTAL (27MHz)	VSS1086
	CN9805,CN9806	20P FFC CONNECTOR	52044-2045
	JA9151	2P PIN JACK	AKB7131
	JA9153,JA9154	OPTICAL LINK IN	GP1FA551RZ
	JA9155,JA9156	OPTICAL LINK OUT	GP1FA551TZ
	CN9801	20P SOCKET	KP200TA20L
	CN9803	4P SOCKET	KP200TA4L
	CN9802	9P SOCKET	KP200TA9L
	CN9804	KR CONNECTOR	S5B-PH-K-S

6. ADJUSTMENT

■ IDLE CURRENT ADJUSTMENT

• **CAUTION** : Do not turn arround the adjustment Varriable resistors (VRs) fast !
If you go over the adjustment specification value too much. MOS-FET may be broken.

Steps

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. (Turn counterclockwise.)
2. Set the power switch to ON.
3. First adjustment : Adjust VRs in following the step in table 1 and table 2.
4. Second adjustment : Adjust VRs in following the step in table 1 and table 2 that depends on aging time.

Table 1

Step No.	Adjustment Channel	Adjustment Point	Measurement Point
①	SL ch	VR2601	Between W441 and W443
②	SR ch	VR2621	Between W432 and W433
③	FL ch	VR2501	Between two terminal of 2511
④	C ch	VR2541	Between two terminal of 2551
⑤	FR ch	VR2521	Between two terminal of 2531

Table 2

	Adjustment Time	Adjustment Value
First adjustment	00 : 00 - 01 : 30	16.6mV ± 10% (16.6mV ± 1.6mV)
Second adjustment	07 : 00 - 08 : 59	8.2mV ± 10% (8.2mV ± 0.8mV)
	09 : 00 - 11 : 59	7.5mV ± 0.5mV
	12 : 00 - 14 : 59	7.0mV ± 0.5mV
	15 : 00 -	7.0mV ± 0.5mV

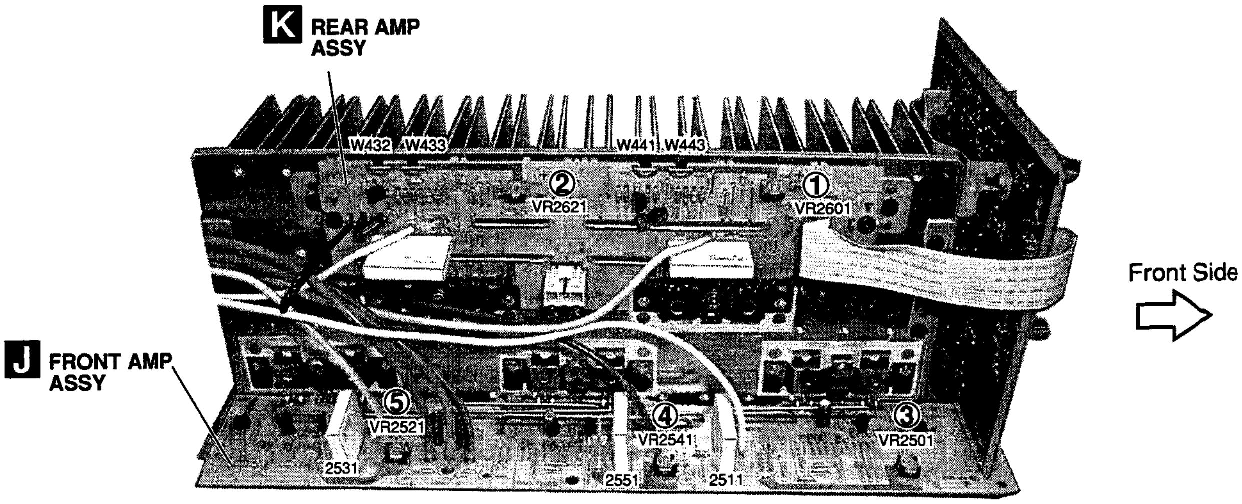
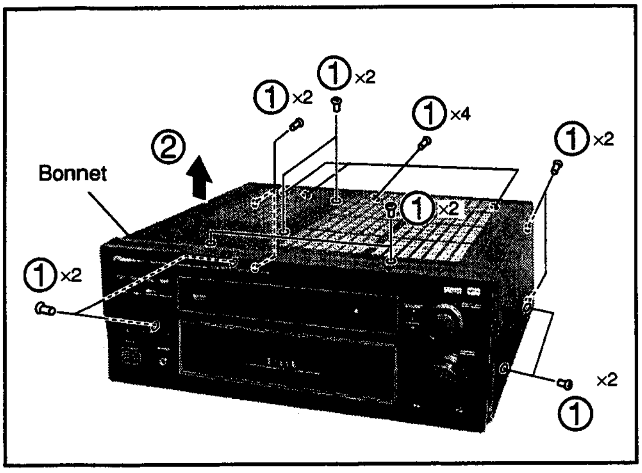

K REAR AMP ASSY
W432
W433
W441
W443
②
VR2621
①
VR2601
Front Side
J FRONT AMP ASSY
⑤
VR2521
2531
④
VR2541
2551
2511
③
VR2501

Fig.1 Adjustment Points

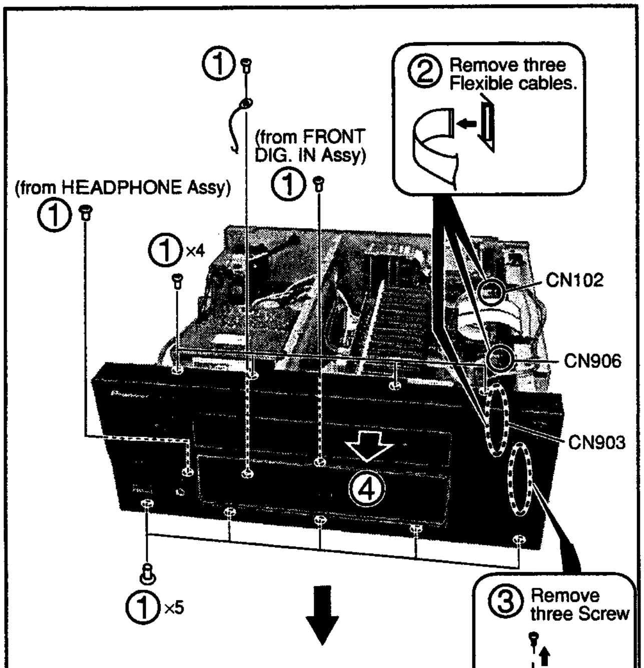
7. GENERAL INFORMATION

7.1 DISASSEMBLY

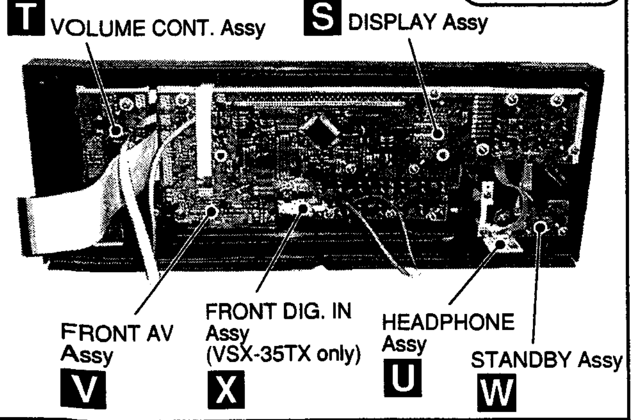
■Bonnet


①×2
①×2
①×4
①×2
Bonnet
②
①×2
①×2
×2
①

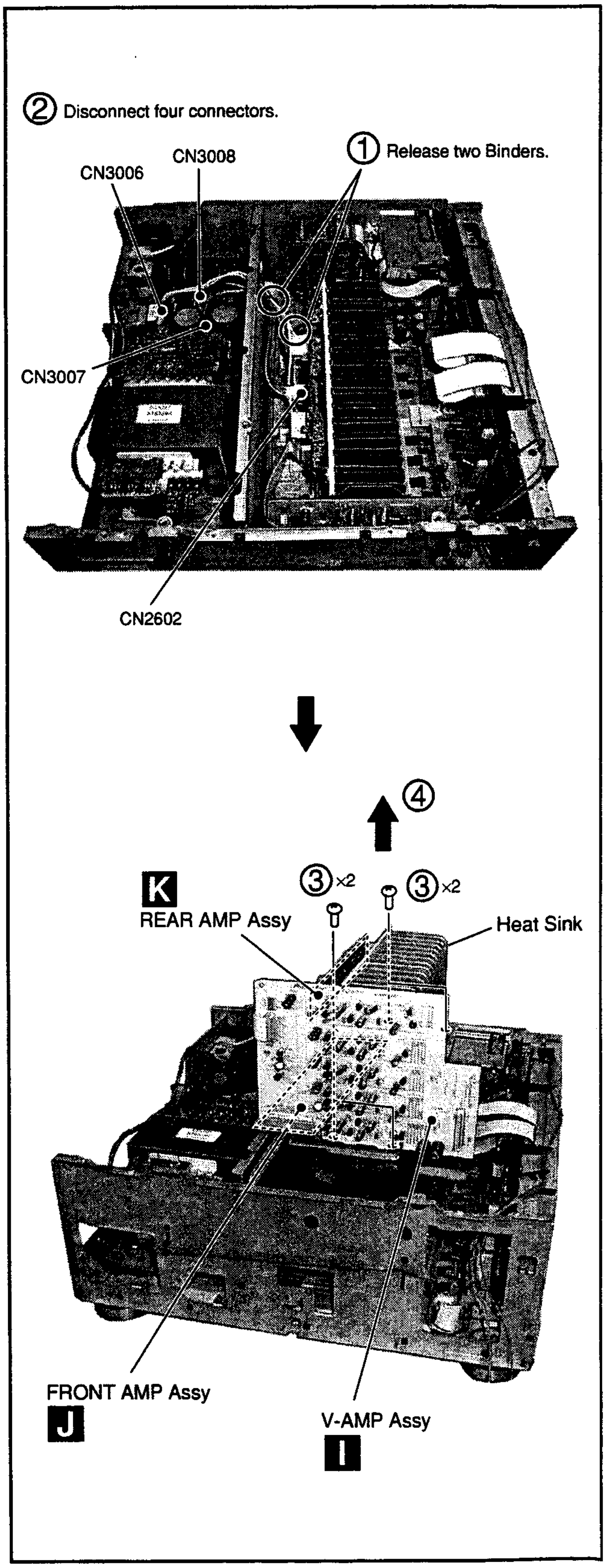
■Front Panel Section


①
② Remove three Flexible cables.
(from FRONT DIG. IN Assy)
(from HEADPHONE Assy)
①
①
①×4
CN102
CN906
CN903
④
①×5
③ Remove three Screw
SE Angle

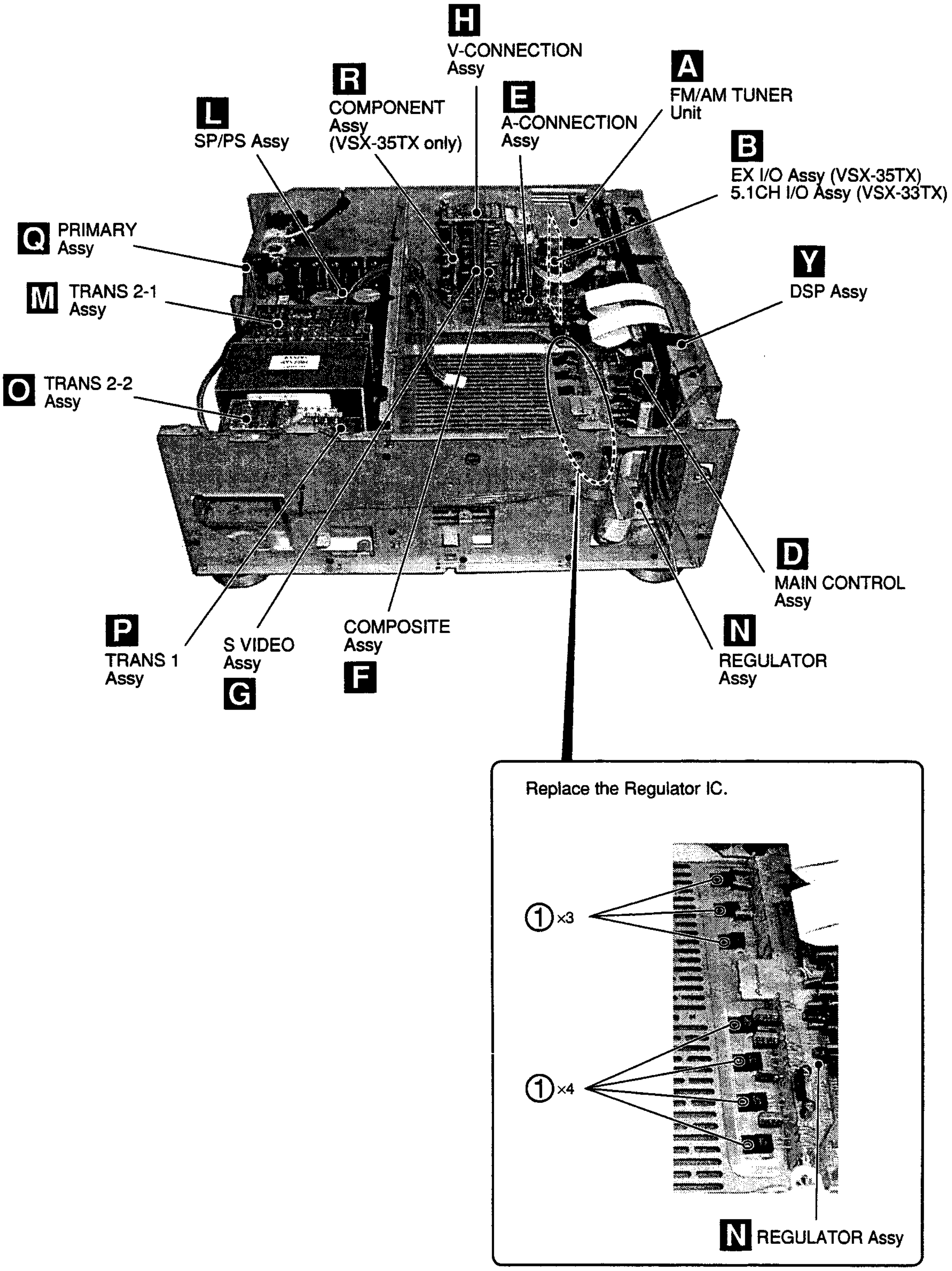
• PCB Location (Front Panel Section)


T VOLUME CONT. Assy
S DISPLAY Assy
FRONT AV Assy
V
FRONT DIG. IN Assy (VSX-35TX only)
X
HEADPHONE Assy
U
STANDBY Assy
W

■Heat Sink Section


② Disconnect four connectors.
CN3008
CN3006
① Release two Binders.
CN3007
CN2602
④
K
REAR AMP Assy
③×2
③×2
Heat Sink
FRONT AMP Assy
J
V-AMP Assy
I

■ PCB Location


H V-CONNECTION Assy
R COMPONENT Assy (VSX-35TX only)
L SP/PS Assy
E A-CONNECTION Assy
A FM/AM TUNER Unit
B EX I/O Assy (VSX-35TX) 5.1CH I/O Assy (VSX-33TX)
Q PRIMARY Assy
M TRANS 2-1 Assy
Y DSP Assy
O TRANS 2-2 Assy
D MAIN CONTROL Assy
P TRANS 1 Assy
S VIDEO Assy G
COMPOSITE Assy F
N REGULATOR Assy
①×3
①×4
N REGULATOR Assy

Replace the Regulator IC.

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

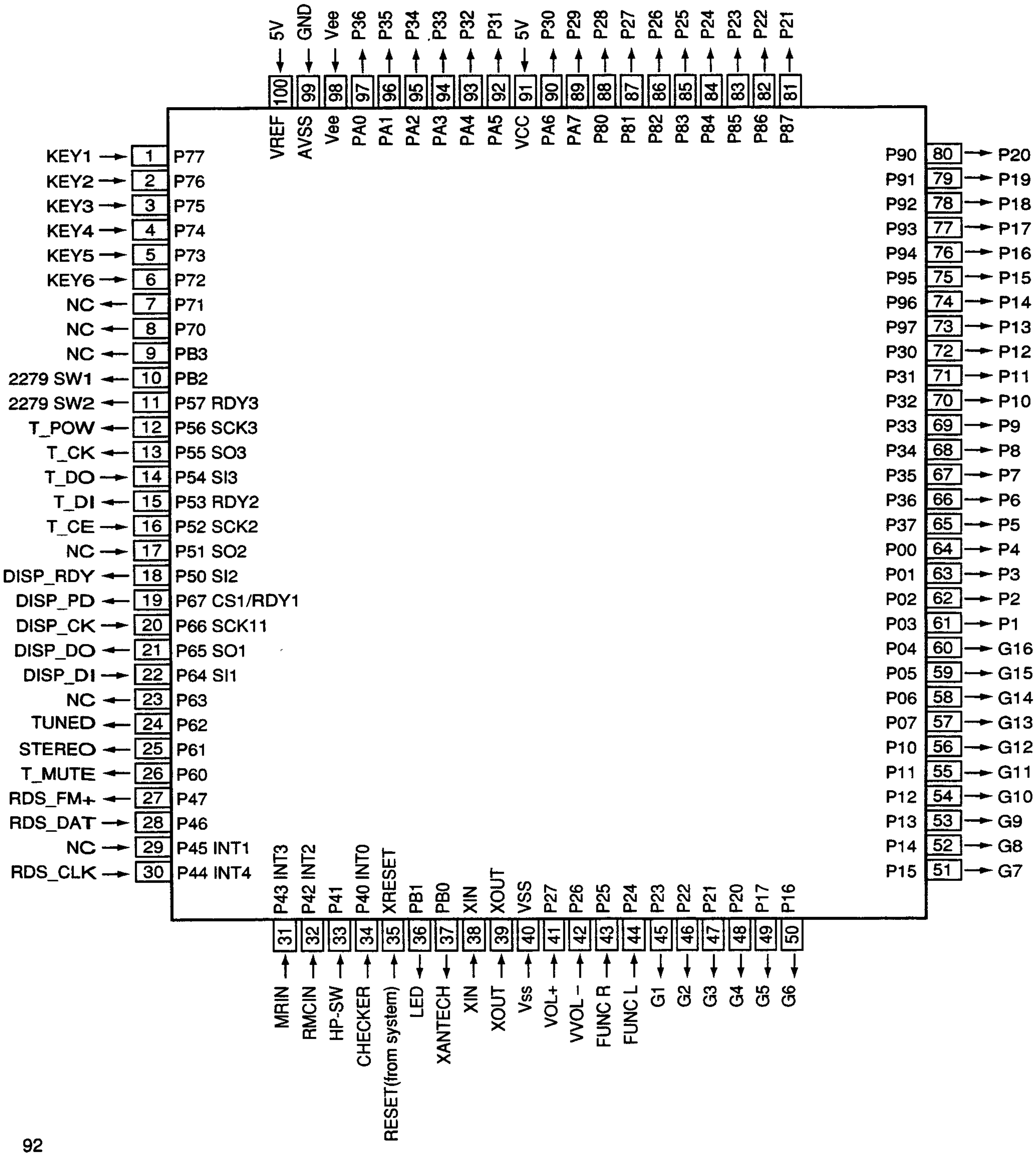
•List of IC

PD5588A, PD5587A

■ PD5588A (DISPLAY ASSY : IC7001)

- **Display Control IC**

• Pin Assignment (Top View)


5V 100 VREF
GND 99 AVSS
Vee 98 Vee
P36 97 PA0
P35 96 PA1
P34 95 PA2
P33 94 PA3
P32 93 PA4
P31 92 PA5
5V 91 VCC
P30 90 PA6
P29 89 PA7
P28 88 P80
P27 87 P81
P26 86 P82
P25 85 P83
P24 84 P84
P23 83 P85
P22 82 P86
P21 81 P87
KEY1 1 P77
KEY2 2 P76
KEY3 3 P75
KEY4 4 P74
KEY5 5 P73
KEY6 6 P72
NC 7 P71
NC 8 P70
NC 9 PB3
2279 SW1 10 PB2
2279 SW2 11 P57 RDY3
T_POW 12 P56 SCK3
T_CK 13 P55 SO3
T_DO 14 P54 SI3
T_DI 15 P53 RDY2
T_CE 16 P52 SCK2
NC 17 P51 SO2
DISP_RDY 18 P50 SI2
DISP_PD 19 P67 CS1/RDY1
DISP_CK 20 P66 SCK11
DISP_DO 21 P65 SO1
DISP_DI 22 P64 SI1
NC 23 P63
TUNED 24 P62
STEREO 25 P61
T_MUTE 26 P60
RDS_FM+ 27 P47
RDS_DAT 28 P46
NC 29 P45 INT1
RDS_CLK 30 P44 INT4
MRIN 31 P43 INT3
RMCIN 32 P42 INT2
HP-SW 33 P41
CHECKER 34 P40 INT0
RESET(from system) 35 XRESET
LED 36 PB1
XANTECH 37 PB0
XIN 38 XIN
XOUT 39 XOUT
Vss 40 VSS
VOL+ 41 P27
VVOL – 42 P26
FUNC R 43 P25
FUNC L 44 P24
G1 45 P23
G2 46 P22
G3 47 P21
G4 48 P20
G5 49 P17
G6 50 P16
P90 80 P20
P91 79 P19
P92 78 P18
P93 77 P17
P94 76 P16
P95 75 P15
P96 74 P14
P97 73 P13
P30 72 P12
P31 71 P11
P32 70 P10
P33 69 P9
P34 68 P8
P35 67 P7
P36 66 P6
P37 65 P5
P00 64 P4
P01 63 P3
P02 62 P2
P03 61 P1
P04 60 G16
P05 59 G15
P06 58 G14
P07 57 G13
P10 56 G12
P11 55 G11
P12 54 G10
P13 53 G9
P14 52 G8
P15 51 G7

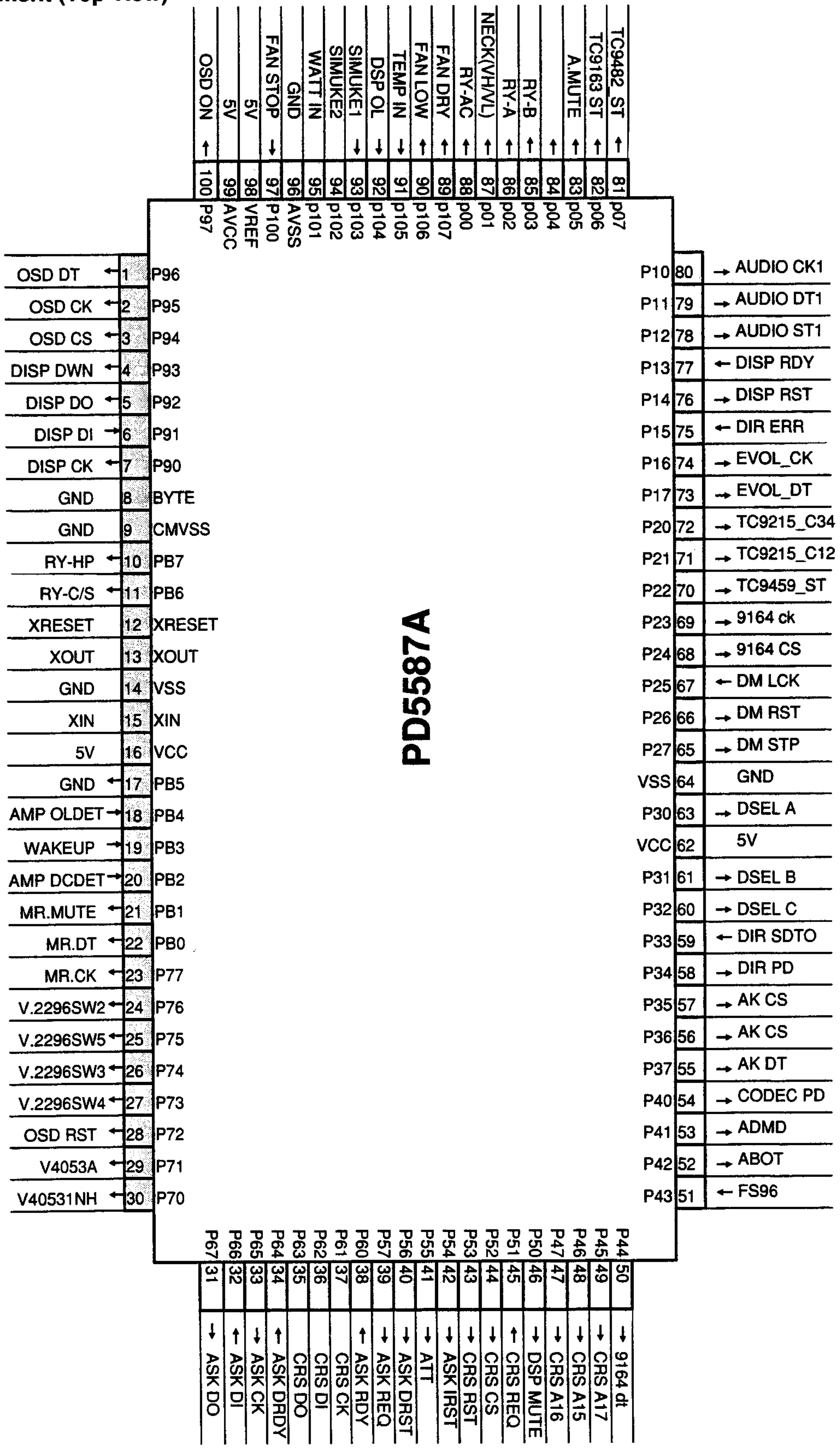
• Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	KEY 1	I	Key scan input 1	51	G7	O	Grid output 7
2	KEY 2	I	Key scan input 2	52	G8	O	Grid output 8
3	KEY 3	I	Key scan input 3	53	G9	O	Grid output 9
4	KEY 4	I	Key scan input 4	54	G10	O	Grid output 10
5	KEY 5	I	Key scan input 5	55	G11	O	Grid output 11
6	KEY 6	I	Key scan input 6	56	G12	O	Grid output 12
7	NC	O	Open	57	G13	O	Grid output 13
8	NC	O	Open	58	G14	O	Grid output 14
9	NC	O	Open	59	G15	O	Grid output 15
10	2279 SW1	O	Control for NJM2279	60	G16	O	Grid output 16
11	2279 SW2	O	Control for NJM2279	61	S1	O	Segment output 1
12	T-POW	O	Tuner power down	62	S2	O	Segment output 2
13	T-CK	O	Clock for tuner module	63	S3	O	Segment output 3
14	T-DO	I	Data from tuner module	64	S4	O	Segment output 4
15	T-DI	O	Data for tuner module	65	S5	O	Segment output 5
16	T-CE	O	Chip enable for tuner module	66	S6	O	Segment output 6
17	NC	I	Open	67	S7	O	Segment output 7
18	DISP RDY	O	Data request for IC901 MAIN U-COM	68	S8	O	Segment output 8
19	DISP PD	O	Display u-com power dowen	69	S9	O	Segment output 9
20	DISP CK	I	Clock from IC901 MAIN U-COM	70	S10	O	Segment output 10
21	DISP DO	O	Data for IC901 MAIN U-COM	71	S11	O	Segment output 11
22	DISP DI	I	Data from IC901 MAIN U-COM	72	S12	O	Segment output 12
23	NC	O	Open	73	S13	O	Segment output 13
24	TUNED	I	Tuned data from tuner module	74	S14	O	Segment output 14
25	STEREO	I	Stereo tuned data from tuner module	75	S15	O	Segment output 15
26	T-MUTE	O	Tuner mute ON/OFF	76	S16	O	Segment output 16
27	RDS FM+	–	VDD for IC7401 BU1923 (RDS model only)	77	S17	O	Segment output 17
28	RDS DAT	O	Data for IC7401 BU1923 (RDS model only)	78	S18	O	Segment output 18
29	NC	I	(pull-up)	79	S19	O	Segment output 19
30	RDS CLK	I	Clock for IC7401 BU1923 (RDS model only)	80	S20	O	Segment output 20
31	MR IN	I	Sub room remote control (MR&S, MR model only)	81	S21	O	Segment output 21
32	RMC IN	I	Remote control	82	S22	O	Segment output 22
33	HP-SW	I	Headphone connect detect	83	S23	O	Segment output 23
34	CHECKER	I	For unit check test mode detection	84	S24	O	Segment output 24
35	COM-RESET	I	Reset	85	S25	O	Segment output 25
36	LED	O	Standby LED	86	S26	O	Segment output 26
37	XANTECH	O	XANTECH ON/OFF	87	S27	O	Segment output 27
38	XIN	–	Connect a 7.2MHz oscillator	88	S28	O	Segment output 28
39	XOUT	–		89	S29	O	Segment output 29
40	VSS	–	GND	90	S30	O	Segment output 30
41	VOL+	I	Rotary encoder signal +	91	VDD	–	Power supply +5V
42	VOL-	I	Rotary encoder signal -	92	S31	O	Segment output 31
43	FUNC/R	I	Rotary encoder signal R	93	S32	O	Segment output 32
44	FUNC/L	I	Rotary encoder signal L	94	S33	O	Segment output 33
45	G1	O	Grid output 1	95	S34	O	Segment output 34
46	G2	O	Grid output 2	96	S35	O	Segment output 35
47	G3	O	Grid output 3	97	S36	O	Segment output 36
48	G4	O	Grid output 4	98	VEE	–	Power supply 5V
49	G5	O	Grid output 5	99	AVSS	–	GND
50	G6	O	Grid output 6	100	VREF	–	Reference voltage 5V

■ PD5587A (MAIN CONTROL ASSY : IC901)

• Main Control IC

• Pin Assignment (Top View)


PD5587A
OSD ON 100 P97
5V 99 AVCC
5V 98 VREF
FAN STOP 97 P100
GND 96 AVSS
WATT IN 95 p101
SIMUKE2 94 p102
SIMUKE1 93 p103
DSP OL 92 p104
TEMP IN 91 p105
FAN LOW 90 p106
FAN DRY 89 p107
RY-AC 88 p00
NECK(VH/VL) 87 p01
RY-A 86 p02
RY-B 85 p03
84 p04
A.MUTE 83 p05
TC9163 ST 82 p06
TC9482 ST 81 p07
OSD DT 1 P96
OSD CK 2 P95
OSD CS 3 P94
DISP DWN 4 P93
DISP DO 5 P92
DISP DI 6 P91
DISP CK 7 P90
GND 8 BYTE
GND 9 CMVSS
RY-HP 10 PB7
RY-C/S 11 PB6
XRESET 12 XRESET
XOUT 13 XOUT
GND 14 VSS
XIN 15 XIN
5V 16 VCC
GND 17 PB5
AMP OLDET 18 PB4
WAKEUP 19 PB3
AMP DCDET 20 PB2
MR.MUTE 21 PB1
MR.DT 22 PB0
MR.CK 23 P77
V.2296SW2 24 P76
V.2296SW5 25 P75
V.2296SW3 26 P74
V.2296SW4 27 P73
OSD RST 28 P72
V4053A 29 P71
V40531NH 30 P70
P10 80 AUDIO CK1
P11 79 AUDIO DT1
P12 78 AUDIO ST1
P13 77 DISP RDY
P14 76 DISP RST
P15 75 DIR ERR
P16 74 EVOL_CK
P17 73 EVOL_DT
P20 72 TC9215_C34
P21 71 TC9215_C12
P22 70 TC9459_ST
P23 69 9164 ck
P24 68 9164 CS
P25 67 DM LCK
P26 66 DM RST
P27 65 DM STP
VSS 64 GND
P30 63 DSEL A
VCC 62 5V
P31 61 DSEL B
P32 60 DSEL C
P33 59 DIR SDTO
P34 58 DIR PD
P35 57 AK CS
P36 56 AK CS
P37 55 AK DT
P40 54 CODEC PD
P41 53 ADMD
P42 52 ABOT
P43 51 FS96
P67 31 ASK DO
P66 32 ASK DI
P65 33 ASK CK
P64 34 ASK DRDY
P63 35 CRS DO
P62 36 CRS DI
P61 37 CRS CK
P60 38 ASK RDY
P57 39 ASK REQ
P56 40 ASK DRST
P55 41 ATT
P54 42 ASK IRST
P53 43 CRS RST
P52 44 CRS CS
P51 45 CRS REQ
P50 46 DSP MUTE
P47 47 CRS A16
P46 48 CRS A15
P45 49 CRS A17
P44 50 9164 dt

• Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	OSD DT	O	Data for IC752 LC74782M-9011	41	ATT	O	Audio attenuator
2	OSD CK	O	Clock for IC752 LC74782M-9011	42	ASK IRST	O	for AK7706 Hard reset
3	OSD CS	O	Chip select for IC752 LC74782M-9011	43	CRS RST	O	Reset for CS49329
4	DISP DWN	O	Reset for IC9501 DSP U-COM	44	CRS CS	O	Chip select for CS49329
5	DISP DO	I	Data from IC7001 DISP U-COM	45	CRS REQ	I	Data for CS49329
6	DISP DI	O	Data for IC7001 DISP U-COM	46	DSP MUTE	O	Mute request from DSP U-COM
7	DISP CK	O	Clock for IC7001 DISP U-COM	47	CRS A16	O	Control for PDN030A
8	GND	–	GND	48	CRS A15	O	Control for PDN030A
9	GND	–	GND	49	CRS A17	O	Control for PDN030A
10	RY-HP	O	Headphone relay ON/OFF	50	9164DT	O	Data from TC9164
11	RY-C/S	O	SP C/S relay ON/OFF	51	FS96	I	96k Hz detect
12	XRESET	I	Reset	52	ABOT	O	Boot signal
13	XOUT	O	Connect a 4.19MHz oscillator	53	ADMD	O	Audio preout mute ON/OFF
14	GND	–		54	CODEC PD	O	CODEC Power down
15	XIN	I		55	AK DT	O	Data from CODEC
16	VDD	–	Power supply +5V	56	AK CK	O	Control for CODEC
17	GND	–	GND	57	AK CS	O	Chip select for CODEC
18	AMP OLDET	O	Amp Overload detect	58	DIR PD	O	DIR Power down
19	WAKEUP	I	AC pulse input	59	DIR SDTO	O	DIR data for output
20	AMP DCDET	O	Amp D.C. detect	60	DSEL C	O	Control for TC74ACT151F
21	MR MUTE	O	Audio mute ON/OFF for sub room (MR&S, MR model only)	61	DSEL B	O	Control for TC74ACT151F
22	MR-V DT	O	Data for IC110 M62429FP control (MR&S model only)	62	Vdd	–	Power supply +5V
23	MR-V CK	O	Clock for IC110 M62429FP control (MR&S model only)	63	DSEL A	O	Control for TC74ACT151F
24	V.2296SW2	O	Control for IC701, 801, 802 NJM2296M	64	GND	–	GND
25	V.2296SW5	O	Control for IC701, 801, 802 NJM2296M	65	DM STP	O	Data for Demodureter
26	V.2296SW3	O	Control for IC701, 801, 802 NJM2296M	66	DM RST	O	Reset for Demodureter
27	V.2296SW4	O	Control for IC701, 801, 802 NJM2296M	67	DM LCK	O	Clock for Demodureter
28	OSD RST	O	Reset for IC752 LC74782M-9011	68	9164 CS	O	Chip select for TC9164
29	V4053A	O	Control for TC74HC4053 (Nch Open Drain)	69	9164 CK	O	Clock for TC9164
30	V4053INH	O	Inhibit for TC74HC4053 (Nch Open Drain)	70	TC4959_ST	O	Strobe for TC4959
31	ASK DO	I	Data from AK7706	71	TC9215_C-12	O	Control for TC9215
32	ASK DI	O	Data for AK7706 Input signal	72	TC9215_C-34	O	Control for TC9215
33	ASK CK	O	Clock for AK7706	73	EVOL_DT	O	Data for Electr Volume
34	ASK DRDY	O	Data ready from AK7706	74	EVOL_CK	O	Clock for Electr Volume
35	CRS DO	I	Data from CS49329	75	DIR ERR	I	DIR Error detect
36	CRS DI	O	Data for CS49329 Input signal	76	DISP RST	O	Reset for IC7001 DISP U-COM
37	CRS CK	O	Clock for CS49329	77	DISP RDY	I	Data request from IC7001 DISP U-COM
38	ASK RDY	I	Data request from AK7706	78	AUDIO ST1	O	Strobe for TC9274F,TC9164,TC9163
39	ASK REQ	O	Chip select for AK7706	79	AUDIO DT1	O	Data for TC9274F,TC9164,TC9163
40	ASK DRST	O	for AK7706 Soft reset	80	AUDIO CK1	O	Clock for TC9274F,TC9164,TC9163

- **Pin Function**

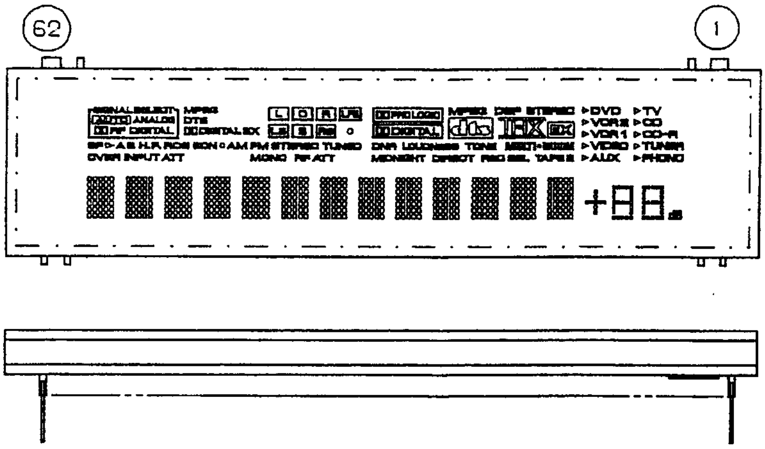
No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
81	TC9482ST	O	Strobe for IC108 TC9482N control	91	TEMP IN	O	O/open (KU,J,SD), I/Fan temperature A/D input (other)
82	TC9163ST	O	Strobe for IC107 TC9163F control	92	DSP OL	I	DSP overload detect, A/D input
83	A MUTE	O	Audio mute ON/OFF	93	SIMUKE 1	I	SIMUKE (pull-up or down)
84	NC	O	Open	94	SIMUKE 2	I	SIMUKE (pull-up or down)
85	RY-B	O	SP B relay ON/OFF	95	WATT IN	I/O	O/Open (KU,J,SD), I/Fan wattage input, A/D input (other)
86	RY-A	O	SP A relay ON/OFF	96	GND	–	GND
87	NECK(VH/-VL)	O	Neck ON/OFF (24,26,908,938 only)	97	FAN STOP	I/O	O/Open (KU,J,SD), I/Fan stop detecter (other)
88	RY-AC	O	AC relay ON/OFF	98	5V	–	Power supply +5V
89	FAN DRIVE	O	Open (KU,J,SD), Fan drive (other)	99	5V	–	Power supply +5V
90	FAN LOW	O	Open (KU,J,SD), Fan low (other)	100	OSD ON	O	Control for IC102 BU4053BCF, TC4W53FU (MR&S model only)

7.2.2 DISPLAY

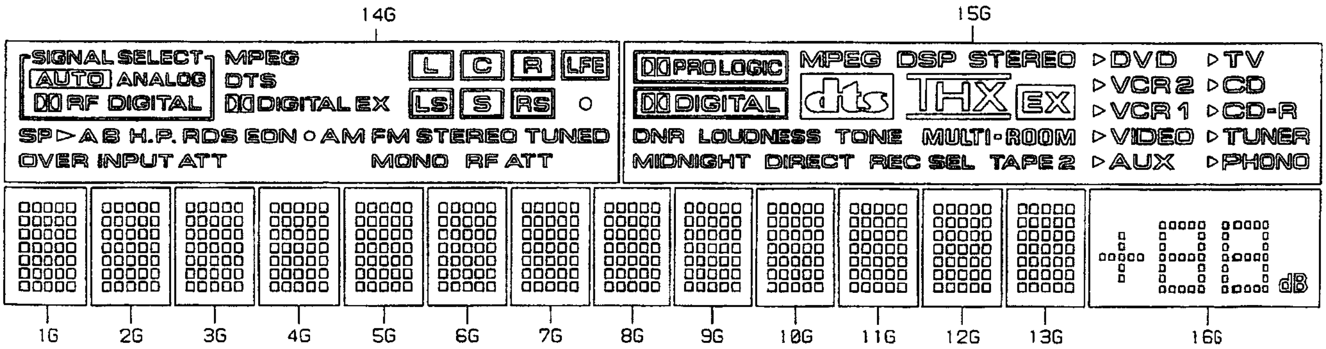
■ AAV7076 (DISPLAY ASSY :V7001)

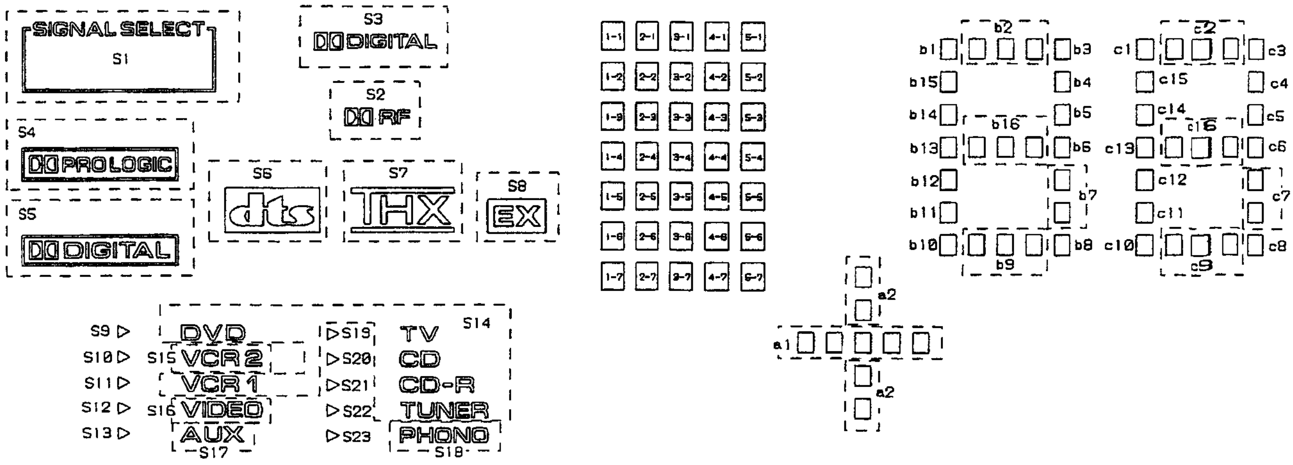
- **FL Indicator Tube**

● Pin Assignment



● Grid Assignment


14G
15G
SIGNAL SELECT
AUTO ANALOG
RF DIGITAL
MPEG
DTS
DIGITAL EX
L C R LFE
LS S RS
SP ▷A B H.P. RDS EON AM FM STEREO TUNED
OVER INPUT ATT MONO RF ATT
PRO LOGIC
DIGITAL
MPEG DSP STEREO
dts THX EX
▷DVD ▷TV
▷VCR 2 ▷CD
▷VCR 1 ▷CD-R
▷VIDEO ▷TUNER
▷AUX ▷PHONO
DNR LOUDNESS TONE MULTI-ROOM
MIDNIGHT DIRECT REC SEL TAPE 2
dB
1G
2G
3G
4G
5G
6G
7G
8G
9G
10G
11G
12G
13G
16G


SIGNAL SELECT
S1
S3
DIGITAL
S2
RF
S4
PRO LOGIC
S5
DIGITAL
S6
dts
S7
THX
S8
EX
S9 ▷
S10 ▷
S11 ▷
S12 ▷
S13 ▷
DVD
S15 VCR 2
VCR 1
S16 VIDEO
AUX
S17
▷S19
▷S20
▷S21
▷S22
▷S23
S14
TV
CD
CD-R
TUNER
PHONO
S18
1-1 2-1 3-1 4-1 5-1
1-2 2-2 3-2 4-2 5-2
1-3 2-3 3-3 4-3 5-3
1-4 2-4 3-4 4-4 5-4
1-5 2-5 3-5 4-5 5-5
1-6 2-6 3-6 4-6 5-6
1-7 2-7 3-7 4-7 5-7
a1
a2
a2
b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12 b13 b14 b15 b16
c1 c2 c3 c4 c5 c6 c7 c8 c9 c10 c11 c12 c13 c14 c15 c16

• Anode Connection

	1G-13G	14G	15G	16G
P1	1-1	AM	MIDNIGHT	a1
P2	2-1	FM	DIRECT	a2
P3	3-1	L	REC	b1
P4	4-1	C	SEL	b2
P5	5-1	R	TAPE 2	b3
P6	1-2	LFE	DNR	b15
P7	2-2	LS	LOUDNESS	b4
P8	3-2	S	TONE	b14
P9	4-2	RS	MULTI•ROOM	b5
P10	5-2	MONO	S5	b13
P11	1-3	STEREO	S6	b16
P12	2-3	RF ATT	S7	b6
P13	3-3	TUNED	S8	b12
P14	4-3	○	S4	b7
P15	5-3	OVER	MPEG	b11
P16	1-4	INPUT	DSP	b10
P17	2-4	ATT	STEREO	b9
P18	3-4	(EON)○	S13	b8
P19	4-4	EON	S12	c1
P20	5-4	RDS	S11	c2
P21	1-5	SP ▷	S10	c3
P22	2-5	A	S9	c15
P23	3-5	B	S17	c4
P24	4-5	H.P.	S16	c14
P25	5-5	EX	S15	c5
P26	1-6	S3	S14	c13
P27	2-6	DTS	S23	c16
P28	3-6	MPEG	S22	c6
P29	4-6	S1	S21	c12
P30	5-6	S2	S20	c7
P31	1-7	DIGITAL	S19	c11
P32	2-7	AUTO	S18	c10
P33	3-7	ANALOG	-	c9
P34	4-7	-	-	c8
P35	5-7	-	-	dB

PIN CONNECTION

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	9G	10G	11G	12G	13G	14G	15G	16G	NC	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	NC	NC	NP	NP	F1	F1

PIN NO.	62	61	60	59	58	57	56	55	54	53	52	51
CONNECTION	F2	F2	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G

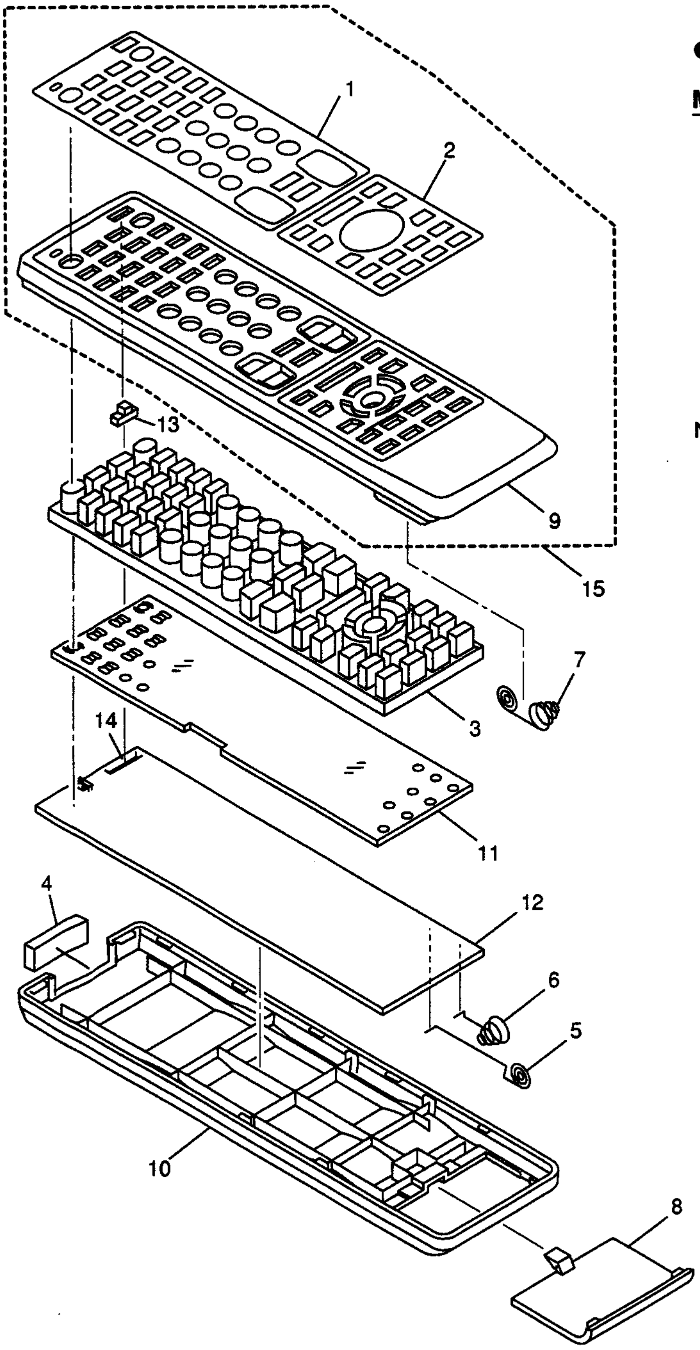
NOTE : F1, F2 : Filament G1 to G15 : Grid NC : No Connection NP: No Pin DL : Datum Line

7.3 REMOTE CONTROL UNIT

7.3.1 AXD7266 (Remote Control 35)

7.3.1.1 EXPLODED VIEWS AND PARTS LIST

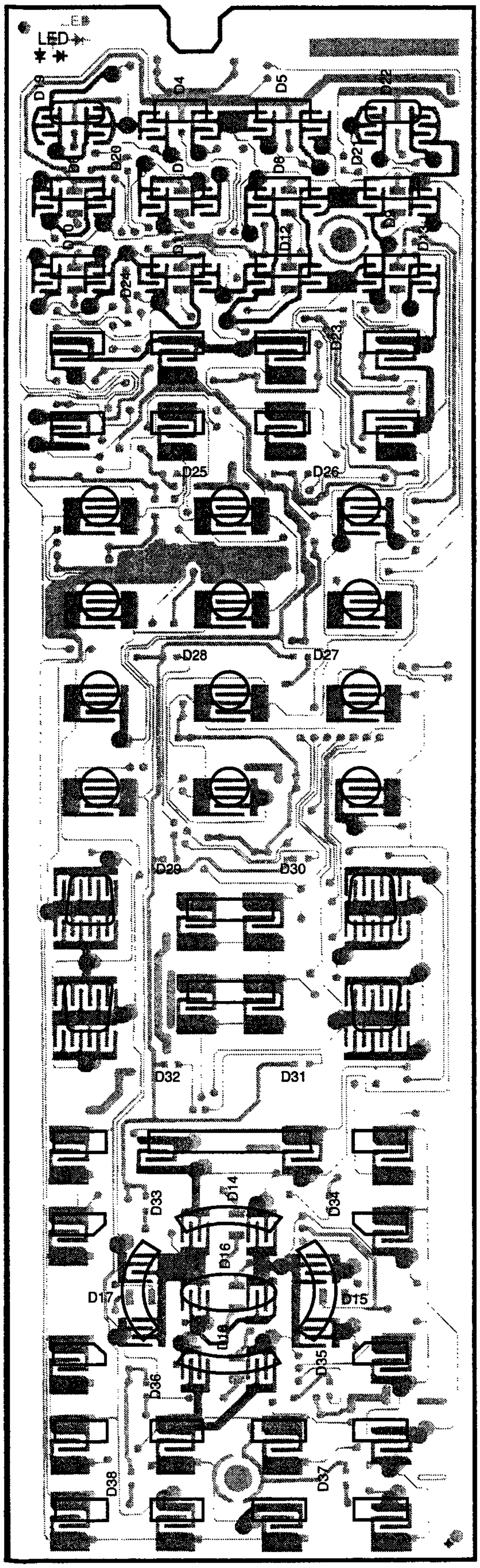
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*



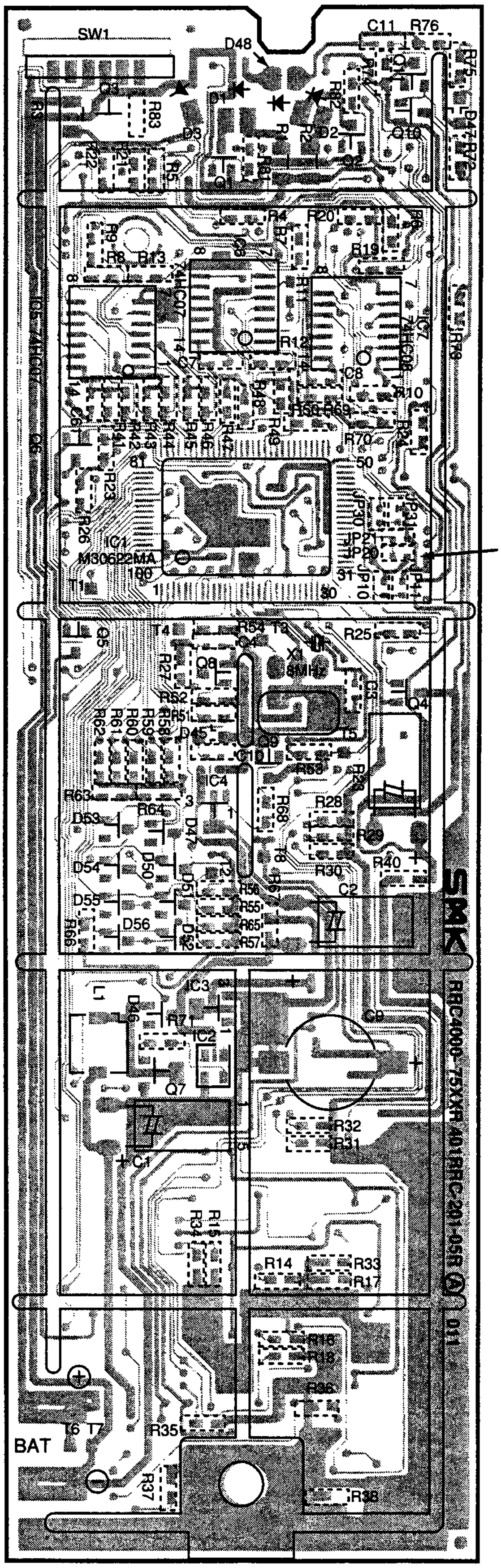
• PARTS LIST

Mark	No.	Description	Part No.
	1	Name Plate A	AZA7380
	2	Name Plate B (AXD7266)	AZA7396
	3	Rubber Sheet (AXD7266)	AZA7397
	4	Filter	AZA7340
	5	Terminal A (+)	AZB7141
	6	Terminal B (-)	AZB7142
	7	Spring	AZB7143
	8	Battery Cover	AZN7841
	9	Case (A)	AZN7832
	10	Case (B)	AZN7781
NSP	11	Illumi Plate	AZN7782
	12	PCB	AZW7260
	13	Knob	AZA7398
	14	Slide Switch	AZS7036
	15	Case A assy : 7266	AZN7864

7.3.2.2 PCB DIAGRAM


LED
D19
D4
D5
D22
D20
D8
D21
D11
D12
D13
D24
D23
D25
D26
D28
D27
D29
D30
D32
D31
D33
D14
D34
D16
D17
D15
D18
D36
D35
D38
D37

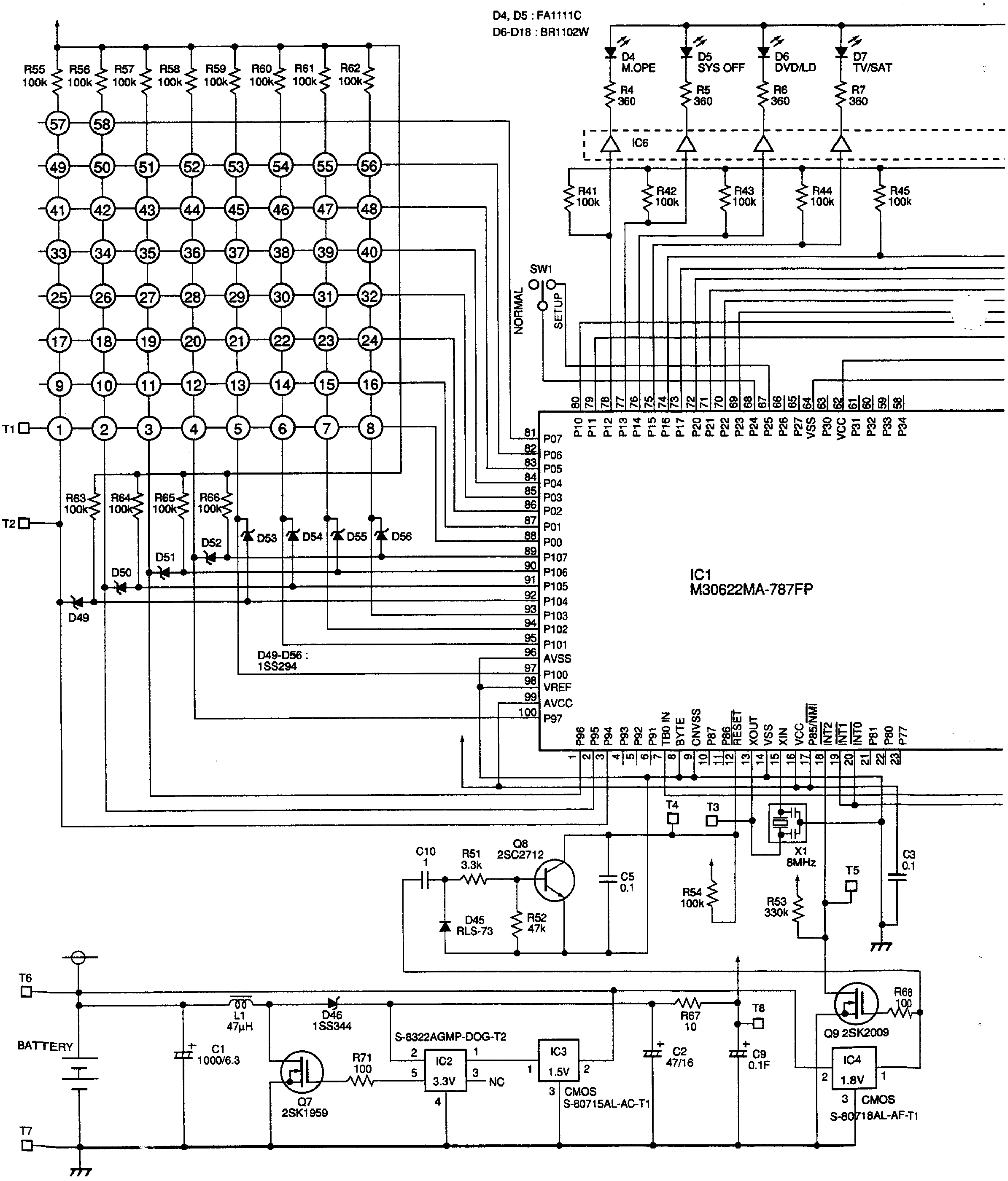
SIDE A

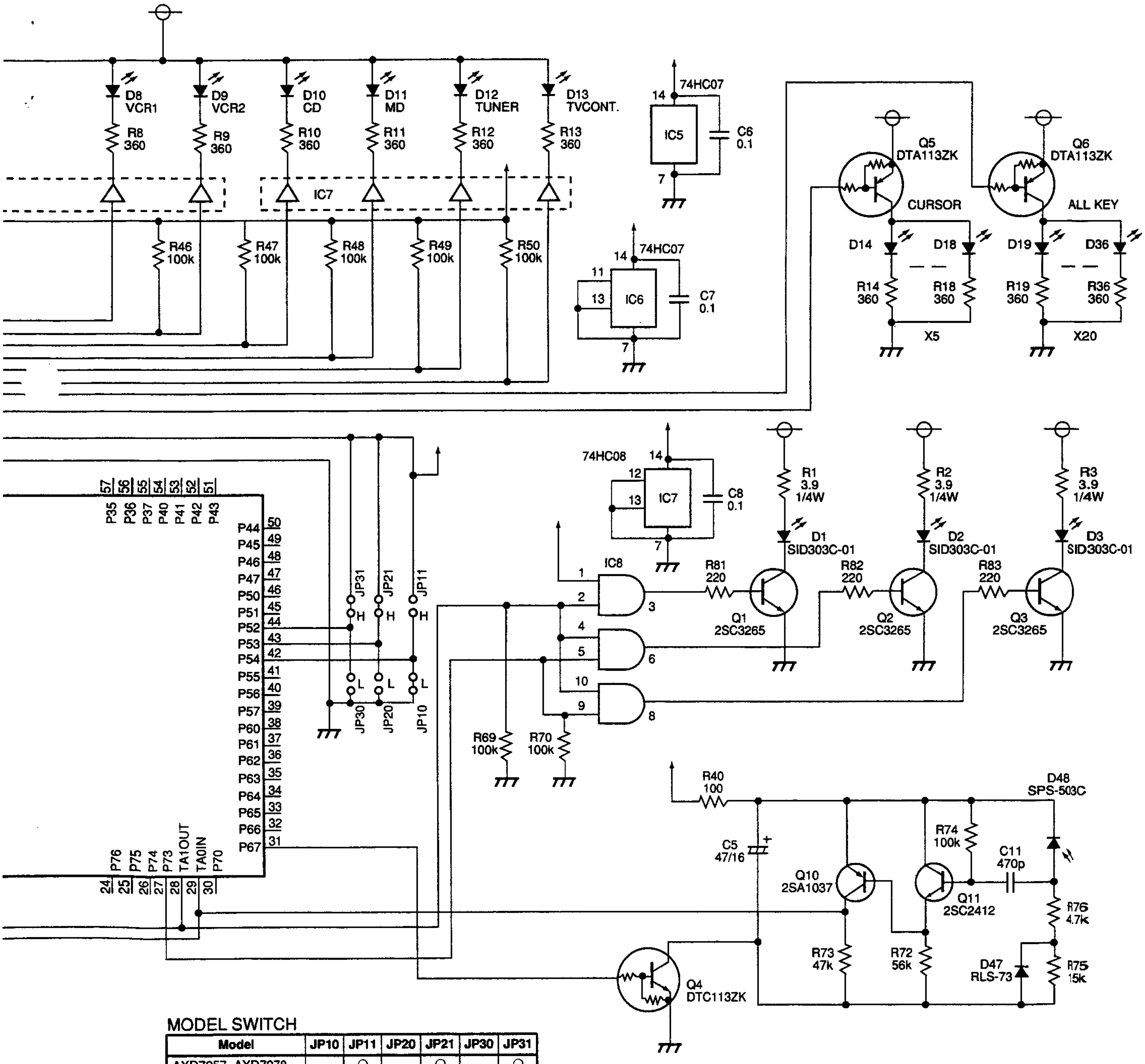

SW1
D48
C11
R76
R75
Q3
R83
D1
R82
D47
R72
R3
R1
R2
D2
Q10
R22
R21
D5
D3
Q1
Q2
R4
R20
R9
R8
R13
R19
R11
R12
74HC08
C8
R10
R50
R69
R70
R23
R26
IC1
M30622MA
JP30
JP21
JP20
JP10
T1
T4
R54
T3
X1
8MHz
R25
Q5
R27
Q8
R52
R61
R60
R59
R58
R62
D45
C10
R53
T5
Q4
R63
IC4
R64
D53
R68
R28
R29
D54
D50
D51
R30
R40
C2
D55
R56
R55
R65
R57
D56
R66
SMK
RRC4000-75XXR-401/RRC-201-05R (A) 011
L1
D46
IC3
R71
IC2
C9
Q7
C1
R32
R31
R15
R34
R14
R33
R17
R16
R18
R36
BAT
R35
R37
R38

Open (Remove) JP11, 20, 30,

SIDE B

7.3.2.3 SCHEMATIC DIAGRAM


D4, D5 : FA1111C
D6-D18 : BR1102W
D4
M.OPE
D5
SYS OFF
D6
DVD/LD
D7
TV/SAT
R4
360
R5
360
R6
360
R7
360
IC6
R41
100k
R42
100k
R43
100k
R44
100k
R45
100k
R55
100k
R56
100k
R57
100k
R58
100k
R59
100k
R60
100k
R61
100k
R62
100k
SW1
NORMAL
SETUP
T1
T2
R63
100k
R64
100k
R65
100k
R66
100k
D49
D50
D51
D52
D53
D54
D55
D56
D49-D56 :
1SS294
IC1
M30622MA-787FP
P07
P06
P05
P04
P03
P02
P01
P00
P107
P106
P105
P104
P103
P102
P101
AVSS
P100
VREF
AVCC
P97
P10
P11
P12
P13
P14
P15
P16
P17
P20
P21
P22
P23
P24
P25
P26
P27
VSS
P30
VCC
P31
P32
P33
P34
P96
P95
P94
P93
P92
P91
TB0 IN
BYTE
CNVSS
P87
P86
RESET
XOUT
VSS
XIN
VCC
P85/NMI
INT2
INT1
INT0
P81
P80
P77
T4
T3
X1
8MHz
T5
C3
0.1
C10
1
R51
3.3k
Q8
2SC2712
C5
0.1
D45
RLS-73
R52
47k
R54
100k
R53
330k
T6
T7
BATTERY
C1
1000/6.3
L1
47μH
D46
1SS344
Q7
2SK1959
R71
100
S-8322AGMP-DOG-T2
IC2
3.3V
NC
IC3
1.5V
CMOS
S-80715AL-AC-T1
R67
10
C2
47/16
T8
C9
0.1F
Q9 2SK2009
R68
100
IC4
1.8V
CMOS
S-80718AL-AF-T1
1
2
3
4
A
B
C
D


D8
VCR1
D9
VCR2
D10
CD
D11
MD
D12
TUNER
D13
TVCONT.
R8
360
R9
360
R10
360
R11
360
R12
360
R13
360
IC7
R46
100k
R47
100k
R48
100k
R49
100k
R50
100k
74HC07
14
IC5
7
C6
0.1
74HC07
14
11
13
IC6
7
C7
0.1
Q5
DTA113ZK
CURSOR
Q6
DTA113ZK
ALL KEY
D14
D18
D19
D36
R14
360
R18
360
R19
360
R36
360
X5
X20
57 56 55 54 53 52 51
P35 P36 P37 P40 P41 P42 P43
P44 50
P45 49
P46 48
P47 47
P50 46
P51 45
P52 44
P53 43
P54 42
P55 41
P56 40
P57 39
P60 38
P61 37
P62 36
P63 35
P64 34
P65 33
P66 32
P67 31
P76 P75 P74 P73 TA1OUT TA0IN P70
24 25 26 27 28 29 30
JP31
JP21
JP11
H
L
JP30
JP20
JP10
74HC08
14
12
13
IC7
7
C8
0.1
IC8
1
2
3
4
5
6
10
9
8
R69
100k
R70
100k
R1
3.9
1/4W
R2
3.9
1/4W
R3
3.9
1/4W
D1
SID303C-01
D2
SID303C-01
D3
SID303C-01
R81
220
R82
220
R83
220
Q1
2SC3265
Q2
2SC3265
Q3
2SC3265
R40
100
D48
SPS-503C
C5
47/16
R74
100k
C11
470p
Q10
2SA1037
Q11
2SC2412
R76
4.7k
R73
47k
R72
56k
D47
RLS-73
R75
15k
Q4
DTC113ZK

MODEL SWITCH

Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	–	○	–	○	–	○
AXD7258, AXD7279	–	○	–	○	○	–
AXD7259	–	○	○	–	–	○
AXD7266	–	○	○	–	○	–
AXD7273	○	–	–	○	–	○
AXD7275	○	–	–	○	○	–

7.3.2.4 PCB PARTS LIST

NOTES: ● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Part No.
	IC1		M30622MA-787FP
	IC2		S-8322AGMP-DOG-T2
	IC3		S-80715AL-AC-T1
	IC4		S-80718AL-AF-T1
	IC5,IC6		74HC07
	IC7		74HC08
	Q1-Q3		2SC3265
	Q4		DTC113ZK
	Q5,Q6		DTA113ZK
	Q7		2SK1959
	Q8		2SC2712
	Q9		2SK2009
	Q10		2SA1037
	Q11		2SC2412
	D1-D3		SID303C-01
	D6-D18		BR1102W
	D23-D36		CL190TD-CD
	D45,D47		RLS-73
	D46		1SS344
	D48		SPS-503C
	D49-D56		1SS294

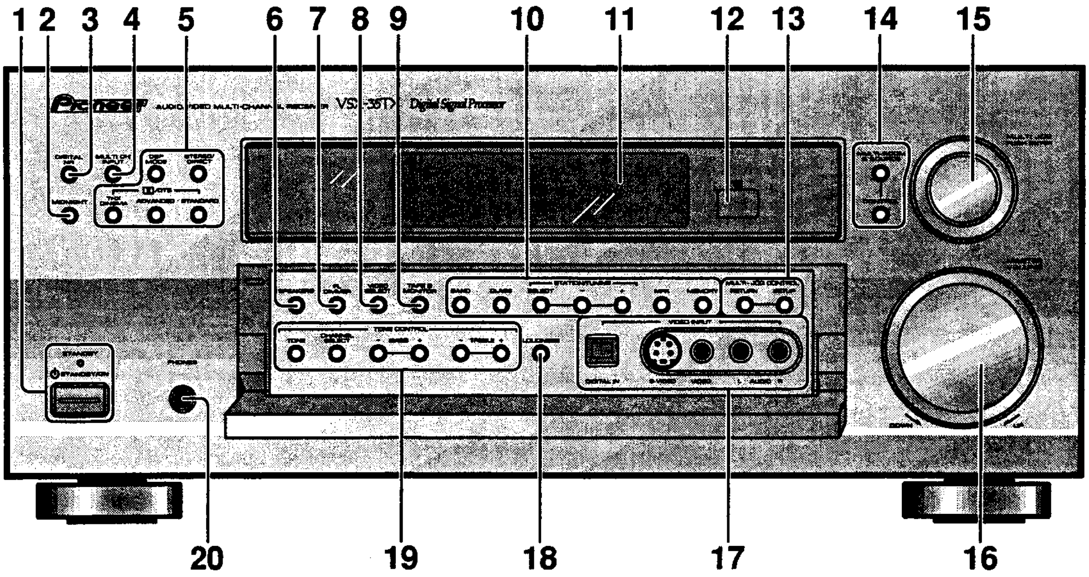
8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section (VSX-35TX,VSX-33TX)

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.

VSX-35TX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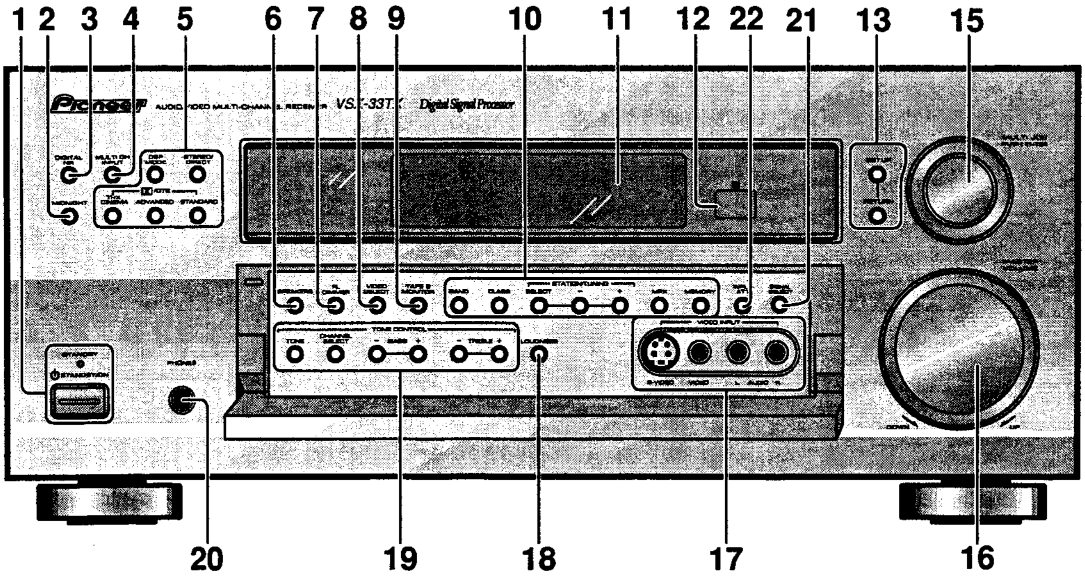
VSX-33TX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■ Front Section (for VSX-35TX and VSX-33TX)

1 **⏻ STANDBY/ON button**
Press to switch the receiver ON or into STANDBY mode.

STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [1.0 W] in the standby mode.)

2 **MIDNIGHT button**
Switches the MIDNIGHT mode on or off (cannot be used in THX mode).

3 **DIGITAL NR button**
Switches the DIGITAL Noise Reduction on or off (cannot be used in THX mode).

4 **MULTI CH INPUT**
Use to hook up an external component that can decode other types of signals and input them into the VSX-35TX.

5 **DSP MODE button**
Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5/7 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

STEREO/DIRECT button
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode.

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

DD / DTS buttons

THX CINEMA – Cycles through the THX CINEMA, THX SURROUND EX or THX AUTO sound modes. Use when listening THX-certified sources if you have THX-certified speaker setup or want to re-create a THX-style sound environment. It is also appropriate for Dolby Digital, Dolby Pro Logic or DTS sources.Those with surround back speakers can use all three THX modes, those without should use the THX CINEMA mode.

ADVANCED THEATER – Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic or DTS sources.

STANDARD – Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic or DTS software.

6 **SPEAKERS (A/B) button**
Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the sub-woofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off

7 **FL DIMMER button**
Use to adjust the brightness of the fluorescent display (FL = fluorescent display).
Four levels of the brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display.

8 **VIDEO SELECT button**
Switches the receiver between the various types of video input while keeping the audio input the same.

9 **TAPE 2 MONITOR button**
Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

10 **TUNER CONTROL buttons**

BAND – Press to select the AM or FM band.

CLASS – Press repeatedly to switch the preset station classes.

TUNING SELECT – Switches the STATION/TUNING button between station memory and frequency select modes.

STATION –/+ – Selects station memories when using the tuner.

TUNING –/+ – Selects the frequency when using the tuner.

MPX – Press to switch between auto stereo and MONO reception of FM broadcasts. When the broadcast signal is weak, selecting MONO will improve the sound quality.

MEMORY – Press to start the memorization of a preset station.

11 **Display**

12 **Remote sensor**
Point the remote control toward the remote sensor to operate the receiver.

13 **MULTI-JOG CONTROL buttons**

SETUP – Press to switch the setup mode.

RETURN – Press to move back one step in the SETUP process.

14 MULTI-ROOM & SOURCE button (VSX-33TX Only)

Press to use the multi room feature (it's best to have an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver for this feature).

CONTROL button Used together with the INPUT SELECTOR to select the function to select the volume of the MULTI ROOM system.

15 MULTI JOG dial

You can use this dial for three purposes. In normal mode turn it to select a source component or press it to switch the display between function mode and sound mode. When you press the SETUP button (13), you can use it to perform SETUP operations (turn to select, push to enter).

The source indicators show the current component:

DVD/LD – DVD player or LaserDisc player.

TV/SAT– TV or satellite tuner.

CD – Compact Disc player.

CD-R/TAPE1/MD – CD recorder, tape deck or Mini Disc recorder connected to CD-R/TAPE 1/ MD inputs/outputs.

TUNER – The built-in tuner.

PHONO – Turntable.

VIDEO – Video camera (etc.) connected to the VIDEO INPUT on the front panel.

VCR1/DVR – Video cassette recorder connected to VCR1/DVR inputs.

VCR 2 – Video cassette recorder or other component connected to VCR 2 inputs.

16 MASTER VOLUME

Adjusts the overall receiver volume.

17 VIDEO INPUT jacks

DIGITAL IN: (VSX-35TX Only)
Optical video input for connecting a video camera (or video game, portable DVD, etc.), that has an optical out.

S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out.

VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

18 LOUDNESS button

Switches the LOUDNESS mode on or off (cannot be used in THX mode).

19 TONE button

This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE (cannot be used in THX mode).

CHANNEL SELECT button
Switches the tone adjust controls between the FRONT, CENTER, SURROUND and SURROUND BACK speakers. You can then use the BASS and TREBLE controls to adjust the sound.

BASS (–/+) button
Use to adjust low frequencies.

TREBLE (–/+) button
Use to adjust the high frequencies.

20 PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers).

21 SIGNAL SELECT button (VSX-33TX Only)

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1/MD, VCR 1/DVR, VCR 2).

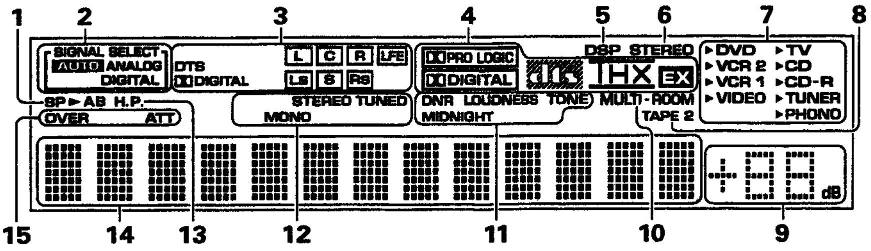
AUTO –This is the default. If there are both analog, digital, the receiver automatically selects the best possible signal.

22 INPUT ATT button (VSX-33TX Only)

Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVER indicator will light when this is the case).

■ Display (for VSX-35TX)

All the display information is explained and /or referenced here.



1 **Speaker indicators**
Light to indicate the current speaker system, A and/or B.

2 **SIGNAL SELECT indicators**
Light to indicate the input signal you selected.

ANALOG – Lights when analog signals are assigned.
DIGITAL – Lights when digital audio signals are selected.
AUTO – Lights when the receiver is set to select the input signal automatically.

3 **Program Format indicator**
DD DIGITAL – Lights when a source with Dolby Digital signals is played.

DTS – Lights when a source with DTS audio signals is played.

For Dolby Digital or DTS sources: These indicators change according to which channels are active in the source. When all three LS (left surround), S (surround) and RS (right surround) light at the same time it means a SURROUND EX source or a DTS ES source with surround back channels is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low Frequency Effects channel.

4 **DD/dts mode indicators**
DD DIGITAL – Indicates multi channel playback of a Dolby Digital source.

DD PRO LOGIC – Lights when Dolby Pro Logic decoding is switched on.

dts – When the DD/dts mode on the receiver is on, this indicator lights to indicate playback of a DTS signal.

THX – Lights when the HOME THX CINEMA mode is selected.

EX – Lights when decoding a Surround EX source.

5 **DSP indicator**
Light when a DSP or Advanced Theater mode is selected.

6 **STEREO indicator**
Lights when a STEREO mode is selected.

7 **Source indicators**
► indicator lights at the selecting source.

8 **TAPE 2 indicator**
Lights when the TAPE 2 monitor is on.

9 **MASTER VOLUME indicator**
Displays current volume level.

10 **MULTI-ROOM indicator**
Lights when the Multi-room system is on.

11 **Sound control indicators**
DNR – Lights when the digital NR is on.
LOUDNESS – Lights when the Loudness is on.
TONE – Lights when the Tone control is on.
MIDNIGHT – Lights when the Midnight mode is on.

12 **Tuner indicators**
STEREO – Lights when a FM stereo broadcast is received in the auto stereo mode.
TUNED – Lights when a broadcast is received.
MONO – Lights when the tuner is set to receive FM broadcasts with the mono mode selected.

13 **H.P. (headphones)**
Lights when headphones are connected to the PHONES jack (speakers systems A and B both turn off automatically).

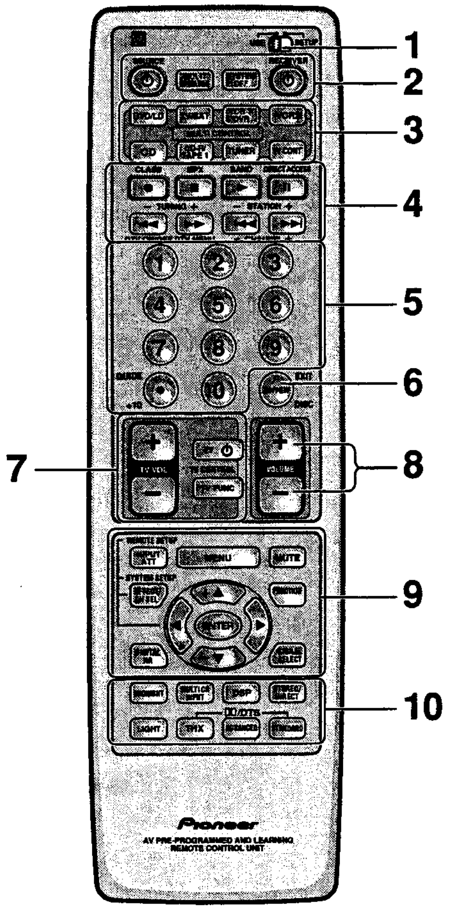
14 **Character display**
Shows current mode, status, etc.

15 **Analog level indicators**
OVER – When the source signal is analog, this lights if the signal is in danger of distorting. Press INPUT ATT on the remote control to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

■ Remote Control Unit (VSX-35TX)

These pages describe the buttons on the remote control used to operate the receiver.



1 **USE/SETUP slide switch**
Use to put the remote into receiver SETUP, or receiver USE mode.

2 **⏻ SOURCE button**
Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

MULTI OPERATION button
Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

SYSTEM OFF button
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the MULTI OPERATIONS settings will also be turned off

For example : If you programmed power on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⏻ RECEIVER button
Press to turn power of the receiver on or to STANDBY (off).

3 **MULTI CONTROL buttons**
Use these to select a source and the corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote operation to the tuner functions.

4 **Component Control buttons**
Use to control specific components, like a CD player or DVD player, after you have programmed the remote control to do these operations and the remote is put in that operation mode.

[Tuner control]

CLASS – Press repeatedly to switch the preset station classes.
MPX – Press to switch between auto stereo and MONO reception of FM broadcasts.
BAND – Press to select AM or FM band.
DIRECT ACCESS – Press to activate the direct access tuning mode.
TUNING +/– – Use to manually tune in to radio stations.
STATION +/– – Use to choose programmed radio stations.

5 **Number buttons**
These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD and tuner operations.

6 **ENTER button**
Use for controlling other components only.

7 **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV ⏻ button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/– button – Use to adjust the TV volume.

8 **MASTER VOLUME buttons**
Use to raise or lower the volume of the receiver.

9 **INPUT ATT button (when USE mode is selected)**
Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicactor will light).

REMOTE SETUP button (when SETUP mode is selected)
Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components" , "Multi Operations"

MENU button
Use to get the various menus for your DVD, TV or DTV.

MUTE button
Press to mute or restore the volume.

EFFECT/CH SEL (when USE mode is selected) button .
EFFECT – Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater you want (by pressing the DSP/ Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

CH SEL – You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

SYSTEM SET UP button (when SETUP mode is selected)
Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound" .

FUNCTION button
Press to select a source. The button will cycle through all the possible sources.

▲(+)/▼(–)/◄/►/ENTER buttons
Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other set up features .

They also can be used to operate DVD players, DTVs and other components after you have input the components preset codes. Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section.

DIGITAL NR button
Press to switch Digital NR on or off.

SIGNAL SELECT button
Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1, VCR 1/DVR, VCR 2, VIDEO).

AUTO –This is the default. If there are analog, or digital signals input the receiver automatically selects the best possible signal.

10 **MIDNIGHT button**
Switches the MIDNIGHT mode on or off.

MULTI CH INPUT button .
Press to switch to multi channel input mode.

DSP button
Press to select a DSP sound mode. Repeated presses cycle through the diffferent possible DSP modes.

STEREO/DIRECT button
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or or toggles between DIRECT and STEREO mode. For more on STEREO mode .

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

LIGHT button
Press to light the remote control buttons.

DD /DTS buttons
Press these buttons to put the receiver in the selected sound mode. For more information on these specific sound modes .

8.2 SPECIFICATIONS

Amplifier Section

VSX-35TX :

Continuous average power output of 90 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output	
Front	90 W + 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Center	90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Rear	90 W + 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	335 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	5 Hz to 100,000 Hz dB
Output (Level/Impedance)	
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC, TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2, MULTI CH IN	101 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

VIDEO Section (S jack)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	5 Hz to 10 MHz dB
Signal-to-Noise Ratio	
Luminance signal (Y)	65 dB

Component Video Section

Input (Sensitivity)	
Y	1 Vp-p/75 Ω
PB/PR	0.7 V
Output (Level/Impedance)	
Y	1 Vp-p/75 Ω
PB/PR	0.7 V
Frequency Response	
Y	5 Hz to 20 MHz dB
PB/PR	5 Hz to 13 MHz dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT, MONITOR OUT2	1 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD VIDEO→MONITOR OUT,	5 Hz to 10 MHz dB
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	400 W, 550 VA
Power Consumption in Standby mode	1.0 W
AC Outlet SWITCHED (x2)	Total 100 W (0.8 A) MAX
Dimensions	420 (W) x 173 (H) x 463 (D) mm (16-9/16 (W) x 6-13/16 (H) x 18-1/4 (D) in.)
Weight (without package)	15.0 kg (33 lb 1 oz)

Furnished Parts

FM wire Antenna	1
AM loop Antenna	1
"AA" IEC LR6 batteries	2
Remote Control Unit	1
Operating Instructions	1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

Amplifier Section
VSX-33TX :

Continuous average power output of 80 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output
  Front .... 80 W + 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
  Center .... 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
  Rear .... 80 W + 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 .... 335 mV/47 kΩ
Frequency Response
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 ...... 5 Hz to 100,000 Hz dB
  VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC, TAPE 2 REC .... 335 mV/2.2 kΩ
Tone Control
  BASS .... ± 6 dB (100 Hz)
  TREBLE .... ± 6 dB (10 kHz)
  LOUDNESS .... +10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 .... 101 dB
  MULTI CH IN .... 101 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 .... 83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*
** *Measured by Audio Spectrum Analyzer.*

VIDEO Section (S jack)

Input (Sensitivity/Impedance)
  VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
    Luminance signal (Y) .... 1 Vp-p/75 Ω
    Chrominance signal (C) .... 0.286 Vp-p/75 Ω
Output (Level/Impedance)
  VCR 1/DVR, VCR 2, MONITOR OUT
    Luminance signal (Y) .... 1 Vp-p/75 Ω
    Chrominance signal (C) .... 0.286 Vp-p/75 Ω
Frequency Response
  VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
    Luminance signal (Y) .... 5 Hz to 10 MHz dB
Signal-to-Noise Ratio
    Luminance signal (Y) .... 65 dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)
  VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT .... 1 Vp-p/75 Ω
Output (Level/Impedance)
  VCR 1/DVR, VCR 2, MONITOR OUT .... 1 Vp-p/75 Ω
Frequency Response
  VCR 1/DVR, VCR 2, TV/SAT, DVD/LD VIDEO→MONITOR OUT, ... 5 Hz to 10 MHz dB
Signal-to-Noise Ratio .... 65 dB

FM Tuner Section

Frequency Range .... 87.5 MHz to 108 MHz
Usable Sensitivity .... Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity .... Mono: 20.2 dBf
  Stereo: 38.6 dBf
Signal-to-Noise Ratio .... Mono: 73 dB (at 85 dBf)
  Stereo: 70 dB (at 85 dBf)
Distortion .... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity .... 60 dB (400 kHz)
Stereo Separation .... 40 dB (1 kHz)
Frequency Response .... 30 Hz to 15 kHz (± 1) dB
Antenna Input .... 75 Ω unbalanced

AM Tuner Section

Frequency Range .... 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) .... 350 μV/m
Selectivity .... 25 dB
Signal-to-Noise Ratio .... 50 dB
Antenna .... Loop antenna

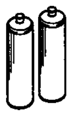
Miscellaneous

Power Requirements .... AC 120 V, 60 Hz
Power Consumption .... 400 W, 550 VA
Power Consumption in Standby mode .... 1.0 W
AC Outlet SWITCHED (x2) .... Total 100 W (0.8 A) MAX
Dimensions .... 420 (W) x 173 (H) x 463 (D) mm
  (16-9/16 (W) x 6-13/16 (H) x 18-1/4 (D) in.)
Weight (without package) .... 14.6 kg (32 lb 3 oz)

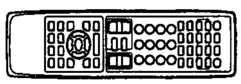
■ Accessories (VSX-35TX / VSX-33TX)

FM wire antenna (ADH7004)

AM loop antenna (ATB7009)



"AA" IEC LR6 batteries x 2



Remote control unit
(Remocon35 : AXD7266)
VSX-35TX
(Remocon33 : AXD7267)
VSX-33TX

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